

# Java Developer Learning Survey

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## Page 1

### 1) What programming language(s) do you regularly use?\*

I don't use programming languages

Java

C

C++

Python

C#

PHP

JavaScript

Ruby

Elixir

Crystal

Kotlin

Swift

Objective-C

Visual Basic

Scala

Go

HTML / CSS

Haskell

R

SQL  
(PL/SQL, T-SQL and other  
programming extensions over SQL)

TypeScript

Dart

CoffeeScript

- Clojure / ClojureScript
- Delphi
- Cobol
- Groovy
- Rust
- Ceylon
- Perl
- Assembly
- Matlab
- Lua
- Shell scripting languages  
(bash/shell/powershell)
- Julia
- F#
- Other - Write In: \_\_\_\_\_\*

**Logic: Hidden unless: #1 Question "What programming language(s) do you regularly use?" is one of the following answers ("Java","C","C++","Python","C#","PHP","JavaScript","Ruby","Elixir","Crystal","Kotlin","Swift","Objective-C","Visual Basic","Scala","Go","HTML / CSS","Haskell","R","SQL (PL/SQL, T-SQL and other programming extensions over SQL)","TypeScript","Dart","CoffeeScript","Clojure / ClojureScript","Delphi","Cobol","Groovy","Rust","Ceylon","Perl","Assembly","Matlab","Lua","Shell scripting languages (bash/shell/powershell)","Julia","F#","Other - Write In:")**

**2) What type(s) of applications do you develop?\***

- I don't develop anything
- Web back-end
- Web front-end
- Mobile applications
- Desktop
- Other back-end
- Data analysis

- Business intelligence (BI)
- Machine learning
- Libraries / Frameworks
- Embedded / IoT
- Other - Write In: \_\_\_\_\_ \*

**Logic: Hidden unless: #1 Question "What programming language(s) do you regularly use?" is one of the following answers ("I don't use programming languages")**

**3) Do you want to learn a programming language(s)?**

- Yes
  - No
- 

**Logic: Hidden unless: Languages number is greater than "1"**

**Piping: Piped Values From Question 1. (What programming language(s) do you regularly use?)**

**4) What is your main programming language?**

**Page entry logic: This page will show when: #1 Question "What programming language(s) do you regularly use?" is one of the following answers ("Java")**

## Page 2 - Java

**5) How long have you been programming in Java? \***

- Less than 1 year
- 1 - 2 years
- 3 - 5 years

6 - 10 years

11+ years

**6) Which version(s) of Java do you regularly use?\***

Java 10

Java 9

Java 8

Java 7

Java 6

Other - Write In:: \_\_\_\_\_\*

**7) What application server(s) do you regularly use, if any?\***

None

Apache Tomcat

Jetty

Wildfly

JBoss EAP

Weblogic

WebSphere

Liberty

Glassfish

Payara

Other - Write In:: \_\_\_\_\_\*

**8) Which framework(s) do you use, if any?\***

None

Undertow

Vert.x

Dropwizard

- GWT
- JSF
- Play Framework
- Grails 2
- Grails 3
- Spring MVC
- Struts 1
- Struts 2
- Vaadin
- Wicket
- Netty
- Spring
- Spring Boot
- Spark Java
- Ktor
- Hibernate
- J2EE
- Other - Write In:: \_\_\_\_\_ \*

**9) Which build system(s) do you regularly use, if any?\***

- None
- Maven
- sbt
- Gradle
- Ant
- Other - Write In:: \_\_\_\_\_ \*

**10) Which version(s) of Java EE (EE4J) do you regularly use, if any?\***

- None
- Java EE 8

- Java EE 7
- Java EE 6
- Java EE 5
- Other - Write In: \_\_\_\_\_\*

**11) Which IDE / editor do you use the most? \***

- Eclipse or Eclipse-based (e.g. Spring Tool Suite, JBoss Tools, Scala IDE, etc.)
- IntelliJ IDEA
- NetBeans
- Vim
- Sublime
- Atom
- VS Code
- Android Studio
- Other - Write In: \_\_\_\_\_\*

**Page 3**

**Logic: Hidden unless: #11 Question "Which IDE / editor do you use the most? " is one of the following answers ("Eclipse or Eclipse-based (e.g. Spring Tool Suite, JBoss Tools, Scala IDE, etc.)", "IntelliJ IDEA", "NetBeans", "Android Studio")**

**12) What [question("value"), id="29"] IDE features do you use? \***

	Use frequently	Use Sometimes	Know it, but don't use	Don't know, don't use
Detecting duplicates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rename refactoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Intelligent code editing (code commenting, extend/shrink selection, multiple selection, etc.)	( )	( )	( )	( )
Test runner	( )	( )	( )	( )
Database tools	( )	( )	( )	( )
Refactoring (extract or inline variable/method/etc.)	( )	( )	( )	( )
Debugger	( )	( )	( )	( )
"Go to" navigation	( )	( )	( )	( )
Build tools	( )	( )	( )	( )
Code inspections and quick-fixes	( )	( )	( )	( )
Code snippets / Live Template	( )	( )	( )	( )
Docker	( )	( )	( )	( )
Code completion	( )	( )	( )	( )
Decompiler	( )	( )	( )	( )
Code search	( )	( )	( )	( )
VCS integration	( )	( )	( )	( )
Application servers	( )	( )	( )	( )

**13) Which database(s) do you regularly use, if any?\***

- None
- DB2
- MS SQL Server
- MySQL
- Oracle Database
- PostgreSQL
- SQLite
- Cassandra
- Couchbase
- HBase
- MongoDB
- Neo4j
- Redis
- Amazon Redshift
- h2
- Other - Write In: \_\_\_\_\_ \*

**14) Which Continuous Integration (CI) system(s) do you regularly use?\***

- None
- Jenkins / Hudson
- TeamCity
- Bamboo
- Microsoft Team Foundation Build
- Travis CI
- CodeShip
- Codeship
- CircleCI
- CruiseControl
- GoCD
- Gitlab CI

Microsoft TFS / Visual Studio Team Services

AppVeyor

Drone

Semaphore CI

Other - Write In: \_\_\_\_\_\*

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## Page 4

Piping: Piped Values From Question 1. (What programming language(s) do you regularly use?)

**15) Do you plan to adopt / migrate to any other language(s) in the next 12 months? If so, to which one(s)?**

No, not planning to adopt / migrate

Planning to adopt / migrate to other language(s) - Write in: \_\_\_\_\_\*

**16) How much time per week do you spend on learning new tools/technologies/programming languages? \***

I don't spend time on learning

Less than 1 hour a week

1-2 hours a week

3-8 hours a week

9-16 hours a week

17-32 hours a week

32 hours a week or more

**Logic: Hidden unless: #17 Question "How much time per week do you spend on learning new tools/technologies/programming languages? " is one of the following answers ("Less than 1 hour a week", "1-2 hours a week", "3-8 hours a week", "9-16 hours a week", "17-32 hours a week", "32 hours a week or more")**

**17) How do you feel about the time you spend on learning new tools/technologies/programming languages?\***

- I'd like to spend more time on learning
- I like the amount of time I spend on learning
- I'd like to spend less time on learning

**Logic: Hidden unless: #1 Question "What programming language(s) do you regularly use?" is not one of the following answers ("I don't use programming languages", "Java")**

**18) What skills and knowledge do you consider are important for success in your position?\***

- Algorithms and data structures
- Math (discrete math, graph theory, etc.)
- Software design patterns
- Concurrency and parallelism
- Dependency Injection and Inversion of Control
- Code style (code formatting, variables naming, descriptions)
- Database technologies
- Client-side web technologies and frameworks (HTML, CSS, JavaScript, Angular, React)
- Distributed and data-processing systems (Apache Hadoop, etc)
- Performance and memory profiling tools
- Team tools (issue tracker, build server, test environments)
- UX (User Interface Design/User Experience)
- Clouds (AWS, GCP, Azure...)
- Writing tests
- Docker
- Infrastructure as a code (Ansible, Puppet, Chef, Terraform, ...)
- Soft skills
- Project management (agile, scrum, etc)
- Other - Write In: \_\_\_\_\_\*

**Logic: Hidden unless: #1 Question "What programming language(s) do you regularly use?" is not one of the following answers ("I don't use programming languages", "Java")**

**19) What skills and knowledge would you like to learn or improve?\***

- Algorithms and data structures
- Math (discrete math, graph theory, etc.)
- Software design patterns
- Concurrency and parallelism
- Dependency Injection and Inversion of Control
- Code style (code formatting, variables naming, descriptions)
- Database technologies
- Client-side web technologies and frameworks (HTML, CSS, JavaScript, Angular, React)
- Distributed and data-processing systems (Apache Hadoop, etc)
- Performance and memory profiling tools
- Team tools (issue tracker, build server, test environments)
- UX (User Interface Design/User Experience)
- Clouds (AWS, GCP, Azure...)
- Writing tests
- Docker
- Infrastructure as a code (Ansible, Puppet, Chef, Terraform, ...)
- Soft skills
- Project management (agile, scrum, etc)
- Other - Write In:: \_\_\_\_\_\*

**Logic: Hidden unless: #1 Question "What programming language(s) do you regularly use?" is one of the following answers ("Java")**

**20) What skills and knowledge do you consider are important for success in your position?\***

- Algorithms and data structures
- Math (discrete math, graph theory, etc.)

- Software design patterns
- Java as a programming language (syntax, runtime, standard library, basic concurrency)
- JVM internals (garbage collection, data structure internals, runtime internals, memory management, operating system interop)
- Concurrency and parallelism
- Dependency Injection and Inversion of Control
- Code style (code formatting, variables naming, descriptions)
- Database technologies
- Client-side web technologies and frameworks (HTML, CSS, JavaScript, TypeScript, Flow, Angular, React)
- Java enterprise stack (J2EE, application servers, enterprise frameworks [Spring Framework, etc.]
- Build and project management tools (Ant, Maven, Gradle, etc.)
- Distributed and data-processing systems (Apache Hadoop, etc)
- Performance and memory profiling tools
- Team tools (issue tracker, build server, test environments)
- UX (User Interface Design/User Experience)
- GUI (Swing, JavaFX, Android UI, etc.)
- Clouds (AWS, GCP, Azure...)
- Writing tests
- Docker
- Infrastructure as a code (Ansible, Puppet, Chef, Terraform, ...)
- Soft skills
- Project management (agile, scrum, ...)
- Other - Write In: \_\_\_\_\_\*

**Logic: Hidden unless: #1 Question "What programming language(s) do you regularly use?" is one of the following answers ("Java")**

**21) What skills and knowledge would you like to learn or improve?\***

- Algorithms and data structures
- Math (discrete math, graph theory, etc.)
- Software design patterns

- Java as a programming language (syntax, runtime, standard library, basic concurrency)
  - JVM internals (garbage collection, data structure internals, runtime internals, memory management, operating system interop)
  - Concurrency and parallelism
  - Dependency Injection and Inversion of Control
  - Code style (code formatting, variables naming, descriptions)
  - Database technologies
  - Client-side web technologies and frameworks (HTML, CSS, JavaScript, TypeScript, Flow, Angular, React)
  - Java enterprise stack (J2EE, application servers, enterprise frameworks [Spring Framework, etc.]
  - Build and project management tools (Ant, Maven, Gradle, etc.)
  - Distributed and data-processing systems (Apache Hadoop, etc)
  - Performance and memory profiling tools
  - Team tools (issue tracker, build server, test environments)
  - UX (User Interface Design/User Experience)
  - GUI (Swing, JavaFX, Android UI, etc.)
  - Clouds (AWS, GCP, Azure...)
  - Writing tests
  - Docker
  - Infrastructure as a code (Ansible, Puppet, Chef, Terraform, ...)
  - Soft skills
  - Project management (agile, scrum, ...)
  - Other - Write In:: \_\_\_\_\_\*
-

## Page 5

**22) Which of the following have you used to learn new tools / technologies / programming languages?\***

- I have not learned any new tools / technologies / programming languages
- MOOCs (Coursera, edX, Udacity, etc.)
- Podcasts
- Blogs/forums/newletters
- Online coding schools
- Books
- Conferences, meet-ups, tech talks
- Offline educational organizations
- Please pick this option
- Documentation & APIs
- Other - Write In:: \_\_\_\_\_\*

**23) What kind of learning content do you prefer?\***

- Reading
- Video
- Peers
- Instructor
- Podcasts
- Other - Write In:: \_\_\_\_\_\*

**24) What usually motivates you to start learning new things?\***

- Formal training provided by your employer
- Curiosity / Interest
- Desire to improve your skills
- Need for an upcoming project
- Need to fix a current problem

- Desire to get a promotion
- Desire to find a new job
- Other - Write In: \_\_\_\_\_\*

**25) Do you contribute to open source projects ?\***

- Yes, for one project
- Yes, for several projects
- No, but I would like to
- No

**Logic: Show/hide trigger exists. Hidden unless: #27 Question "Do you contribute to open source projects ?" is one of the following answers ("Yes, for one project", "Yes, for several projects")**

**26) What are your purposes or goals when contributing to open source projects?\***

- Part of your job
- Fun
- Learning and applying new technologies
- Working on a product / technology you use
- Building your resume
- Other - Write In: \_\_\_\_\_\*

**Logic: Hidden unless: #28 Question "What are your purposes or goals when contributing to open source projects?" is one of the following answers ("Fun", "Learning and applying new technologies", "Building your resume", "Other - Write In:")**

**27) What platform(s) do you use to find open source projects?\***

- Search GitHub
  - Friends / colleagues
  - Other - Write In: \_\_\_\_\_\*
-

## Page 6

### 28) Could you tell us your age range?\*

- 17 or younger
- 18-20
- 21-29
- 30-39
- 40-49
- 50-59
- 60 or older

### 29) What country do you live in?\*

- |  |   |
|--|---|
| <input type="checkbox"/> Afghanistan         | <input type="checkbox"/> Benin                    |
| <input type="checkbox"/> Albania             | <input type="checkbox"/> Bhutan                   |
| <input type="checkbox"/> Algeria             | <input type="checkbox"/> Bolivia                  |
| <input type="checkbox"/> Andorra             | <input type="checkbox"/> Bosnia and Herzegovina   |
| <input type="checkbox"/> Angola              | <input type="checkbox"/> Botswana                 |
| <input type="checkbox"/> Antigua and Barbuda | <input type="checkbox"/> Brazil                   |
| <input type="checkbox"/> Argentina           | <input type="checkbox"/> Brunei                   |
| <input type="checkbox"/> Armenia             | <input type="checkbox"/> Bulgaria                 |
| <input type="checkbox"/> Australia           | <input type="checkbox"/> Burkina Faso             |
| <input type="checkbox"/> Austria             | <input type="checkbox"/> Burundi                  |
| <input type="checkbox"/> Azerbaijan          | <input type="checkbox"/> Cambodia                 |
| <input type="checkbox"/> Bahamas, The        | <input type="checkbox"/> Cameroon                 |
| <input type="checkbox"/> Bahrain             | <input type="checkbox"/> Canada                   |
| <input type="checkbox"/> Bangladesh          | <input type="checkbox"/> Cape Verde               |
| <input type="checkbox"/> Barbados            | <input type="checkbox"/> Central African Republic |
| <input type="checkbox"/> Belarus             | <input type="checkbox"/> Chad                     |
| <input type="checkbox"/> Belgium             | <input type="checkbox"/> Chile                    |
| <input type="checkbox"/> Belize              | <input type="checkbox"/> China                    |

- Colombia
- Comoros
- Congo, Democratic Republic of the
- Congo, Republic of the
- Costa Rica
- Cote d'Ivoire
- Croatia
- Cuba
- Curacao
- Cyprus
- Czech Republic
- Denmark
- Djibouti
- Dominica
- Dominican Republic
- East Timor (see Timor-Leste)
- Ecuador
- Egypt
- El Salvador
- Equatorial Guinea
- Eritrea
- Estonia
- Ethiopia
- Fiji
- Finland
- France
- Gabon
- Gambia, The
- Georgia
- Germany
- Ghana
- Greece
- Grenada
- Guatemala
- Guinea
- Guinea-Bissau
- Guyana
- Haiti
- Holy See
- Honduras
- Hong Kong
- Hungary
- Iceland
- India
- Indonesia
- Iran
- Iraq
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Jordan
- Kazakhstan
- Kenya
- Kiribati
- Kosovo
- Kuwait
- Kyrgyzstan
- Laos
- Latvia
- Lebanon
- Lesotho
- Liberia
- Libya
- Liechtenstein

- Lithuania
- Luxembourg
- Macau
- Macedonia
- Madagascar
- Malawi
- Malaysia
- Maldives
- Mali
- Malta
- Marshall Islands
- Mauritania
- Mauritius
- Mexico
- Micronesia
- Moldova
- Monaco
- Mongolia
- Montenegro
- Morocco
- Mozambique
- Myanmar
- Namibia
- Nauru
- Nepal
- Netherlands
- Netherlands Antilles
- New Zealand
- Nicaragua
- Niger
- Nigeria
- North Korea
- Norway
- Oman
- Pakistan
- Palau
- Palestinian Territories
- Panama
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Poland
- Portugal
- Qatar
- Romania
- Russia
- Rwanda
- Saint Kitts and Nevis
- Saint Lucia
- Saint Vincent and the Grenadines
- Samoa
- San Marino
- Sao Tome and Principe
- Saudi Arabia
- Senegal
- Serbia
- Seychelles
- Sierra Leone
- Singapore
- Slovakia
- Slovenia
- Solomon Islands
- Somalia
- South Africa
- South Korea

- South Sudan
- Spain
- Sri Lanka
- Sudan
- Suriname
- Swaziland
- Sweden
- Switzerland
- Syria
- Taiwan
- Tajikistan
- Tanzania
- Thailand
- Timor-Leste
- Togo
- Tonga
- Trinidad and Tobago
- Tunisia
- Turkey
- Turkmenistan
- Tuvalu
- Uganda
- Ukraine
- United Arab Emirates
- United Kingdom
- United States
- Uruguay
- Uzbekistan
- Vanuatu
- Venezuela
- Vietnam
- Yemen
- Zambia
- Zimbabwe

**30) What is your main employment status?\***

- Fully employed by a company / organization
- Partially employed by a company / organization
- Self-employed\*\*
- Freelancer\*\*\*
- Student
- Retired
- Currently unemployed
- Other - Write In: \_\_\_\_\_\*

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## Page 7

**Logic: Show/hide trigger exists. Hidden unless: #32 Question "What is your main employment status?" is one of the following answers ("Fully employed by a company / organization", "Partially employed by a company / organization", "Self-employed\*\*", "Freelancer\*\*\*\*")**

**31) Which of the following best describes your job role(s) regardless of your position level?\***

- Developer / Programmer / Software engineer
- DevOps engineer / Infrastructure developer / etc.
- DBA
- Architect
- Tester / QA engineer
- Technical support
- Data analyst / Data engineer
- Business analyst
- Team lead
- Systems analyst
- Product manager
- UX / UI designer
- CIO / CEO / CTO
- Instructor / Teacher / Tutor / etc.
- Developer Advocate
- Other - Write In:: \_\_\_\_\_\*

**32) How long have you been working in IT? \***

- I am unemployed
- I work in a different area
- Less than 1 year
- 1 - 2 years

- 3 - 5 years
- 6 - 10 years
- 11+ years

**Logic: Hidden unless: #32 Question "What is your main employment status?" is one of the following answers ("Fully employed by a company / organization", "Partially employed by a company / organization", "Self-employed\*\*")**

**33) What is the level of your position? \***

- Trainee
- Junior
- Middle
- Senior
- Other - Write In (Required): \_\_\_\_\_ \*

**Logic: Hidden unless: #33 Question "Which of the following best describes your job role(s) regardless of your position level?" is one of the following answers ("Team lead", "Product manager", "CIO / CEO / CTO")**

**34) How long have you held a management position?\***

- Less than 1 year
- 1 - 2 years
- 3 - 5 years
- 6 - 10 years
- 11+ years

**35) Which of the following best describes the highest level of formal education that you've completed ?\***

- I've never completed any formal education
- Primary/elementary school
- Secondary school (e.g. American high school, German Realschule or Gymnasium, etc.)

- Some college/university study without completing a bachelor's degree
  - Bachelor's degree (BA, BS, B.Eng., etc.)
  - Master's degree (MA, MS, M.Eng., MBA, etc.)
  - Professional degree (JD, MD, etc.)
  - Doctoral degree (Ph.D, Ed.D., etc.)
  - Other - Write In: \_\_\_\_\_\*
- 

**Page entry logic:** This page will show when: #32 Question "What is your main employment status?" is one of the following answers ("Fully employed by a company / organization", "Partially employed by a company / organization", "Self-employed\*\*")

## Page 8

### 36) What kind of development does your company do?\*

- Product development
- Outsourcing
- Custom-tailored software / websites / applications
- In-house development
- Internal deployment and maintenance of third-party tools
- Development of customer services (websites, mobile apps, etc.)
- Open source projects
- Other - Write In:: \_\_\_\_\_\*

### 37) What is the total number of people that work for your company / organization?\*

- Just me
- 2-10
- 11-50
- 51-500
- 501-1,000
- 1,001-5,000

- More than 5,000
- Not sure

**38) Is IT your company's core business?\***

- Yes
- No

**Logic: Hidden unless: #41 Question "Is IT your company's core business?" is one of the following answers ("Yes")**

**39) In which of the following sectors is your company primarily active?\***

- Telecom
- Game development (including mobile games)
- Mobile development
- IoT / embedded
- IT services
- Cloud computing / platform
- Big Data / Data analysis
- Hardware
- Data center services
- Software development tools
- Internet / Search engines
- Semiconductors
- E-learning
- FinTech
- Healthcare IT
- Cybersecurity
- BPO services
- Other Software (all other types of software)
- Other - Write In: \_\_\_\_\_\*

**Logic: Hidden unless: #41 Question "Is IT your company's core business?" is one of the following answers ("No")**

**40) In which of the following sectors is your company primarily active?\***

- Government and defense
- Administration / Management / Business Development
- Banking / Real Estate / Mortgage Financing / Accounting / Finance / Insurance
- Business / Strategic Management
- Construction / Architecture
- Customer Support
- Design
- Education / Training
- Human Resources
- Law
- Logistics/ Transportation
- Machinery
- Aerospace
- Automotive and boating
- Manufacturing
- Marketing
- Medicine / Health
- Non-profit
- Entertainment / Mass media and information / Publishing
- Restaurants / Hospitality / Tourism
- Sales / Distribution / Retail
- Food / Agriculture
- Science
- Security
- Service / Maintenance
- Energy
- Other - Write In: \_\_\_\_\_\*

**41) Do you intend to move to a new industry?\***

Yes

No

**Logic: Hidden unless: #44 Question "Do you intend to move to a new industry?" is one of the following answers ("Yes")**

**42) Which of the following industries would you like to move to?\***

Choose one from the list:

- Accounting / Finance / Insurance
- Administration / Management
- Banking / Real estate / Mortgage financing
- Business / Strategic management
- Construction / Architecture
- Customer support
- Design
- Education / Training
- Human Resources
- Information technology / Software development
- Law
- Logistics/ Transportation
- Machinery
- Manufacturing
- Marketing
- Medicine / Health
- Non-profit
- Publishing
- Restaurants / Hospitality
- Sales / Distribution / Business development
- Science

Security

Service / Maintenance

Other. Please specify: \_\_\_\_\_\*

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**Thank You!**