

# JAVA & CLOUD ENGINEERING

**\_nology**

TALENT IN **TECH**NICOLOUR

# CREATING QUALITY TECH TALENT



[\\_nology](#) attracts, assesses, trains, and supports individuals who want to launch a career in tech and places them into client projects as Junior Software and Cloud Engineers.

Our unique attraction approach allows for total inclusion, resulting in a [diverse pool](#) of \_nologists. Clients can turn \_nologists into permanent employees, allowing for greater strength in both diversity and hard-to-find skill sets.

\_nology is part of the [Opus group](#), a global tech talent provider.

# JAVA & CLOUD

(12 WEEKS)

# ENGINEER TRAINING

Training is delivered by our expert team of coaches over a full-time 12-week period. All content has been curated by \_nology based on the feedback of what [our clients](#) need and practically use.

Phase	JavaScript and Web Fundamentals	Agile and Testing	Front-End Frameworks	Java Programming	Databases and Server-side Programming	Architecture Fundamentals
Goal	Learn the basics of building for the web	Develop an Agile and Testing mindset	Learn modern development techniques	Develop best practices for production code	Build servers and databases in production frameworks	Experience the full modern build, test, and deploy cycle
Content	<ul style="list-style-type: none"><li>• Tooling set-up</li><li>• Command Line</li><li>• Version Control</li><li>• HTML and CSS</li><li>• JavaScript</li><li>• Programming</li><li>• CICD basics</li><li>• OOP basics</li></ul>	<ul style="list-style-type: none"><li>• Agile principles</li><li>• SCRUM</li><li>• Unit Testing</li><li>• Integration Testing</li><li>• UAT</li><li>• Test Reporting</li></ul>	<ul style="list-style-type: none"><li>• Package Management</li><li>• Framework architecture</li><li>• React programming</li><li>• HTTP and REST</li><li>• Consuming APIs</li></ul>	<ul style="list-style-type: none"><li>• The JVM</li><li>• Gradle/Maven</li><li>• SOLID principles</li><li>• Java fundamentals</li><li>• JUnit testing</li><li>• Performance testing</li><li>• Functional and OOP</li></ul>	<ul style="list-style-type: none"><li>• SQL basics</li><li>• Data design</li><li>• Java Spring and Spring Boot</li><li>• Design patterns</li><li>• API Integration testing</li><li>• Data layer</li><li>• Monitoring</li><li>• Advanced Queries</li></ul>	<ul style="list-style-type: none"><li>• Microservices</li><li>• AWS Fundamentals</li><li>• CICD</li><li>• Deploying microservices</li><li>• Serverless Architecture</li><li>• Cloud monitoring and security</li></ul>
Project	Build a website that includes a JavaScript game and deploy it live	Deliver a test report for the code from unit 1	Deliver a data-driven React application	Build a command line application using Java	Build an API in Spring, host it, and test it with unit and integration tests	Create a self-healing user of APIs and databases, fully deployed

# CLOUD ENGINEER

# TRAINING

(12 WEEKS)

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Phase	JavaScript and Web Fundamentals	Agile and Testing	Front-End Frameworks	Databases and Server-side Programming	DevOps and CICD	Cloud & Infrastructure as Code
Goal	Learn the basics of building for the web	Develop an Agile and Testing mindset	Learn modern development techniques	Build servers and databases in production frameworks	Understand the principles of DevOps and CICD	Build our architecture in the Cloud with code
Content	<ul style="list-style-type: none"><li>Tooling set-up</li><li>Command Line</li><li>Version Control</li><li>HTML and CSS</li><li>JavaScript Programming</li><li>CICD basics</li><li>OOP basics</li></ul>	<ul style="list-style-type: none"><li>Agile principles</li><li>SCRUM</li><li>Unit Testing</li><li>TDD</li><li>Integrated Testing</li><li>UAT</li><li>Test Reporting</li><li>CICD Introduction</li></ul>	<ul style="list-style-type: none"><li>Package Management</li><li>Framework architecture</li><li>React programming</li><li>HTTP and REST</li><li>Consuming APIs</li></ul>	<ul style="list-style-type: none"><li>SQL basics</li><li>Advanced queries</li><li>SQL vs NoSQL</li><li>NoSQL Fundamentals</li><li>Server-side applications with Node.js</li><li>HTTP requests/response</li><li>RESTful APIs</li><li>MVC Architecture</li><li>ORM with Mongoose</li><li>Swagger Documentation</li></ul>	<ul style="list-style-type: none"><li>DevOps Basics</li><li>Environments</li><li>Scripting</li><li>Pipelines</li><li>Jenkins</li><li>AWS</li></ul>	<ul style="list-style-type: none"><li>Configuration Management</li><li>Ansible &amp; Terraform</li><li>Docker &amp; K8S</li><li>Monitoring</li><li>Serverless Architecture</li></ul>
Project	Build a website that includes a JavaScript game and deploy it live	Use TDD methodology to design an application that is tested via CICD pipeline	Build a personal React project and deploy it live	Build an API in Node, encompassing all the learned concepts	Create a pipeline that tests and deploys our Node app	Automate the orchestration of our Cloud infrastructure and monitor the Node app availability

\_nologists from this course can fill roles including:

**JAVA ENGINEER**

**DEVOPS ENGINEER**

**CLOUD ENGINEER**

**FULL-STACK ENGINEER**

**FRONT-END DEVELOPER**



## OUR CLIENT TESTIMONIAL



The \_nology curriculum focuses on key practices and methodologies that are hard to learn. Students graduate with a deep understanding of new methods and practices and evangelise them from their first day in our organisation. They come ready armed, having only ever learned best practices rather than having to break old habits.



Helen Tippell,  
CIB CTO, Deutsche Bank

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