_NOLOGY TRAINING CURRICULUM

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JAVA & CLOUD ENGINEER (12 weeks)

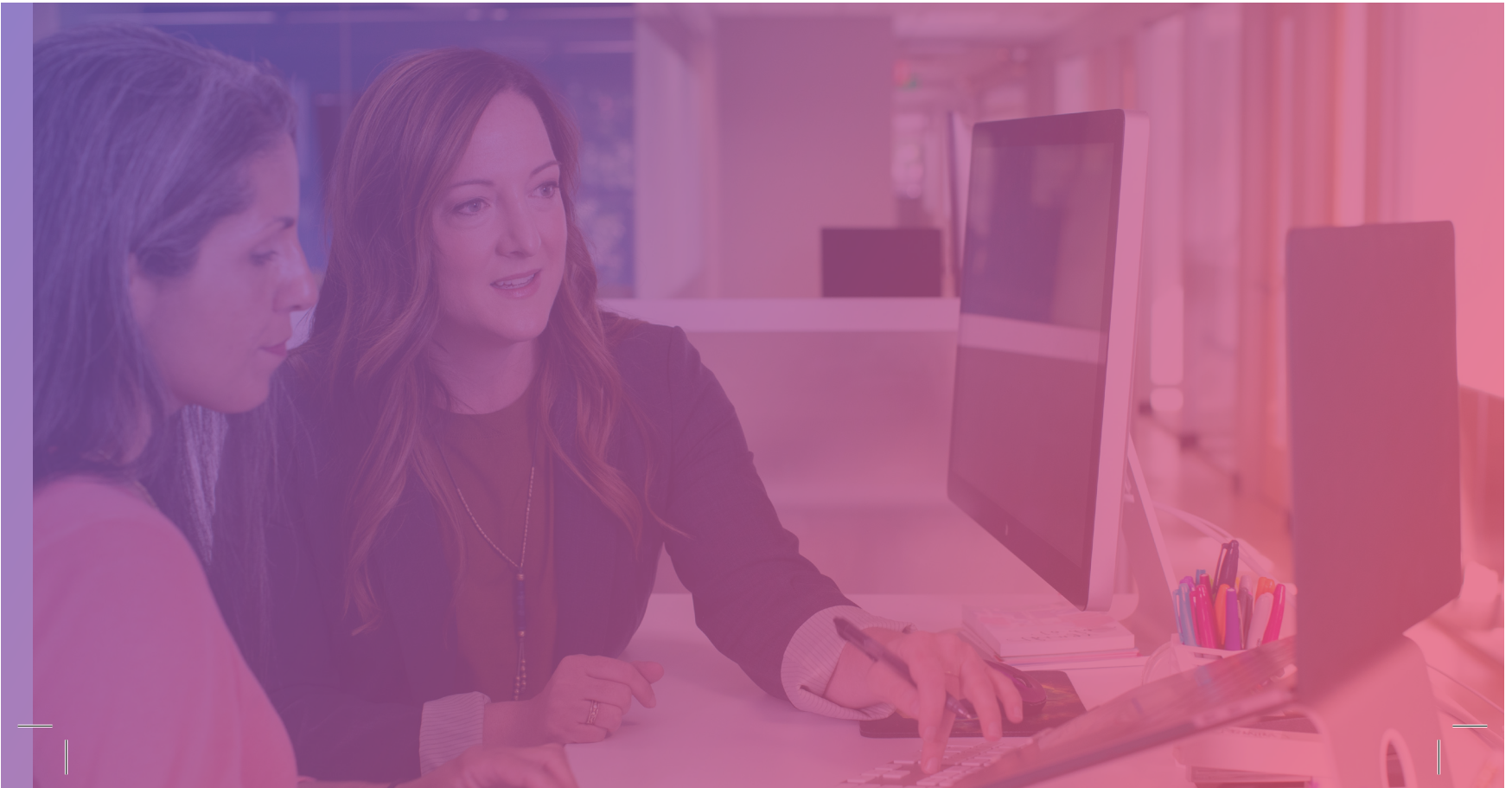| PHASE	JavaScript and Web Fundamentals	Agile and Testing	Frontend Frameworks	Java Programming	Databases and Server-side Programming	Architecture Fundamentals
GOAL	Learn the basics of building for the web	Develop an Agile mindset and a testing mindset	Learn modern development techniques	Develop best practices for production code	Build servers and databases in production frameworks	Experience the full modern build, test, and deploy cycle
CONTENT	• Tooling setup • Command Line • Version Control • HTML and CSS • JavaScript Programming • CI/CD basics • OOP basics	• Agile principles • SCRUM • Unit Testing • Integration Testing • UAT • Test Reporting	• Package Management • Framework architecture • React programming • HTTP and REST • Consuming APIs	• The JVM • Gradle/Maven • SOLID principles • Java fundamentals • JUnit testing • Performance testing • Functional and OOP	• SQL basics • Advanced queries • Data design • Java Spring and Spring Boot • Design patterns • API Integration testing • Data layer • Monitoring	• Microservices • AWS Fundamentals • CI/CD • Deploying microservices • Serverless • Cloud monitoring and security
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

_nologists can fill roles including:

JAVA ENGINEER

DEVOPS ENGINEER

CLOUD ENGINEER

BUSINESS ANALYSIS

FULL-STACK ENGINEER

FRONTEND DEVELOPER

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