



PROGMASTERS

reboot your life!

A JUNIOR JAVA FULL-STACK SZOFTVERFEJLESZTŐ KÉPZÉSÉN ELSAJÁTÍTOTT TECHNOLÓGIÁK

JAVA SE

- variables, operators, datatypes
- code blocks, methods
- control flow statements
- classes, objects
- interfaces
- collection framework
- packages, access modifiers
- exception handling, basic I/O
- concurrency, multithreading

OOP

- UML modeling
- encapsulation
- abstract classes
- composition, inheritance
- polymorphism
- coupling, cohesion
- design patterns (strategy, proxy, factory, singleton)

ALGORITHMS

- sorting algorithms
- searching algorithms
- recursion
- binary trees, graphs

DATABASES

- basic DDL and DML commands
- database design basics (E-R diagrams)
- transactions, isolation levels
- JDBC
- DAO pattern
- Hibernate/JPA
- MySQL, PostgreSQL

TESTING

- TDD using JUnit
- using Mockito
- unit testing vs integration testing
- testing with Selenium

WEB / FRONTEND

- HTTP protocol
- HTML/CSS
- Bootstrap
- servlets, filters, forward/include/redirect
- MVC pattern
- Javascript
- React Framework

REST CONCEPT

- designing and using a REST API
- using REST for CRUD operations

SPRING

- Dependency injection, Inversion of control
- Database access with JdbcTemplate
- Spring Data JPA
- Spring Data REST
- Spring Boot
- Spring Security

DEVOPS

- Using logging frameworks (Logback, Log4J)
- Using Maven and Gradle as build tools
- Using Jenkins as Continuous Integration tool
- Linux basics