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**Shiva
Gautam**

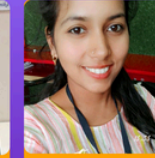
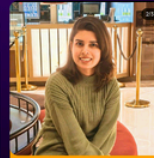
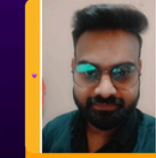
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 9.8 Avdesh Sharma LPA Infosys	 8.3 Mukesh Panday LPA Infosys	 4.8 Nilesh Carpenter LPA ESP Softech	 5.2 Prakash Kharche LPA Tech Jockey	 6.8 Mukesh Randhava LPA Neosoft	 9.8 Akram khan LPA x-Biz	 4.3 Swapnil Joshi LPA x-Biz	 4.8 Ranjana Jadhav LPA TaskCraft
 4.8 Rajat Ghatge LPA Glazer Games	 5 Aman Verma LPA Mosphe	 4.8 Piyush Patidar LPA Divergent	 4.8 Aditya Seth LPA Shethink	 4.3 Sonu Gunhare LPA thoughtwin	 11 anuja solanki LPA Oracle INC	 4.2 Lokesh Kaushik LPA Tracen code	 4.8 Parag Jaisawal LPA KSolve
 4.8 Naman Joshi LPA EXPLETUS	 3 Sakshi Sahu LPA Softops	 4.2 Madhur Tiwari LPA TCS	 4.3 Arushi Rathore LPA bitcot	 6 Veerendra Singh LPA Kelton	 3 Firoz Rizvi LPA Thoughtwin	 4.2 Ibbhishek Parihar LPA Ideal IT Techno	 6.0 Chinmay Chaturvedi LPA Agility Visual

JAVA

QA, SALESFORCE, DA, DS, AI\ML

PLACEMENTS

 2.8 shubham sharma LPA kvsofttech	 5.8 Ankit Goswami LPA Capgemini	 5 Amogh Saxena LPA Digmalet	 3.5 harsh bhonsale LPA dure dev	 4.2 Prateek bhardwaj LPA hivatechnolab	 5.2 Shubham singh LPA Gamma-stack	 4.5 Priya singh LPA ksolve	 5.0 Neha choudhary LPA moryah	 6.2 Naveen Yadav LPA Protonshub
 7 kinjal singh LPA TCS	 11 Siddharth Nashine LPA Accenture	 5.4 Nitesh Bamhotriya LPA Rakuten	 4.8 Mohit chouhan LPA techcoopers	 4.5 utkarsh murea LPA Gucelab	 4.5 Aastha gupta LPA Gucelab	 3.6 Anjali verma LPA Ideal it techno	 4.2 kushagra parmar LPA gemind system	 4.5 ISHWA SHAH LPA SWE GEN
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AI-POWERED JAVA FULL STACK COURSE

Duration: 3-4 months

Course Highlight:

CORE JAVA, ADVANCE JAVA, SPRING CORE, SPRING MVC, SPRING BOOT, HIBERNATE, JPA, SPRING CLOUD

Core Java Syllabus

Module 1: Introduction to Java

- History & Features of Java
- Java Virtual Machine (JVM), JDK, JRE
- Java Program Structure
- First Java Program (Compilation & Execution)
- Role of main() method

Module 2: Java Basics

- Variables & Data Types (Primitive & Non-Primitive)
- Keywords, Identifiers, Literals
- Operators (Arithmetic, Relational, Logical, Bitwise, Assignment, Ternary)
- Type Casting (Widening & Narrowing)
- Input/Output in Java (Scanner, BufferedReader)

Module 3: Control Statements

- Decision-making (if, if-else, nested if, switch)
- Looping (for, while, do-while, enhanced for-each loop)
- Jump statements (break, continue, return)

Module 4: Object-Oriented Programming (OOPs)

- Classes & Objects
- Methods & Constructors
- this keyword
- Method Overloading
- Static variables, methods, and blocks
- Garbage Collection & finalize()

Module 5: Inheritance & Polymorphism

- Types of Inheritance (Single, Multilevel, Hierarchical, Hybrid – no multiple in Java)
- super keyword
- Method Overriding
- final keyword (variable, method, class)
- Dynamic Method Dispatch (Runtime Polymorphism)

Module 6: Abstraction & Encapsulation

- Access Modifiers (private, default, protected, public)
- Packages & import statement
- Abstract Classes & Methods
- Interfaces (Functional Interfaces, default & static methods)
- Encapsulation with Getters & Setter

Module 7: Strings & Arrays

- 1D & 2D Arrays
- Jagged Arrays
- String, StringBuffer, StringBuilder
- Common String methods (length, substring, replace, split, etc.)

Module 8: Exception Handling

- Types of Exceptions (Checked vs Unchecked)
- try, catch, finally, throw, throws
- Custom Exceptions

Module 9: Java Input/Output (I/O)

- File Handling (File, FileReader, FileWriter)
- Byte Streams vs Character Streams
- Buffered Streams
- Serialization & Deserialization

Module 10: Collections Framework

- Wrapper Classes & Autoboxing/Unboxing
- Collection Hierarchy (List, Set, Map)
- ArrayList, LinkedList, HashSet, TreeSet
- HashMap, TreeMap, LinkedHashMap
- Iterators & Enhanced For Loop

Module 11: Multithreading

- Thread Lifecycle
- Creating Threads (Thread class, Runnable interface)
- Thread Methods (sleep, join, yield, interrupt)
- Synchronization (Locks, synchronized keyword)
- Inter-thread Communication (wait, notify, notifyAll)

Module 12: Java Advanced Basics

- Java 8 Features (Lambda Expressions, Streams API, Functional Interfaces)
- Date & Time API (LocalDate, LocalTime, LocalDateTime)
- Annotations (@Override, @FunctionalInterface)

Advance Java Syllabus

Module 1: Introduction to Advance Java

- Core Java vs Advance Java
- Java EE Overview (Enterprise Edition)
- Architecture of Java Web Applications
- Setting up Environment (JDK, Tomcat, Eclipse/IntelliJ)

Module 2: JDBC (Java Database Connectivity)

- JDBC Architecture & Drivers
- Connecting Java with Databases (MySQL, Oracle, PostgreSQL)
- CRUD Operations (Insert, Update, Delete, Select)
- PreparedStatement & CallableStatement
- Batch Processing
- Transaction Management (commit, rollback, savepoint)
- Connection Pooling (Apache DBCP, HikariCP)

Module 3: Servlet Programming

- Servlet Lifecycle (init(), service(), destroy())
- HttpServletRequest & HttpServletResponse
- Request & Response Handling
- Session Management (Cookies, HttpSession, URL Rewriting)
- Servlet Filters & Listeners
- File Upload & Download in Servlet
- MVC Pattern using Servlets

Module 4: JSP (JavaServer Pages)

- JSP Lifecycle
- JSP Directives (page, include, taglib)
- JSP Scripting Elements (Declarations, Expressions, Scriptlets)
- Implicit Objects (request, response, session, application, out, config)
- JSTL (JSP Standard Tag Library)
- Expression Language (EL)
- JSP with JDBC (CRUD Application)

Module 5: JavaBeans & Custom Tags

- JavaBeans Introduction
- Getter & Setter conventions
- Integrating Beans with JSP & Servlets
- Creating Custom JSP Tags

Module 6: Filter in Servlet

- What is Filter
- How to declare and use Filter

Module 7: Web Services

- Introduction to Web Services (SOAP vs REST)
- RESTful Web Services using JAX-RS
- SOAP Web Services using JAX-WS
- Consuming REST APIs in Java (with HttpClient, RestTemplate)
- JSON & XML handling in Java

Module 8: Hibernate (ORM Framework)

- Introduction to Hibernate & ORM Concepts
- Hibernate Configuration & Mapping Files
- Annotations in Hibernate
- Entity Relationships (One-to-One, One-to-Many, Many-to-Many)
- Join Operation in Hibernate
- HQL (Hibernate Query Language)
- Criteria API
- Projection in Hibernate
- Caching in Hibernate (First-level & Second-level)
- Integration of Hibernate with Servlets/JSP

Module 9: Spring CORE Framework

- Introduction to Spring Core
- Dependency Injection (Constructor & Setter Injection)
- Spring Beans & Bean Scopes
- Spring JDBC Template
- Spring with Hibernate
- AOP in SPRING CORE
- SPEL in SPRING CORE
- Spring MVC Basics (DispatcherServlet, Controllers, Views)

Spring MVC

1. Basics

- Introduction to Spring & MVC Architecture
- DispatcherServlet & Request Processing Flow
- Project setup with Maven/Gradle

2. Core Concepts

- Controllers (@Controller, @RequestMapping, @GetMapping, @PostMapping)
- Request Parameters & Path Variables
- Views: JSP, Thymeleaf, ViewResolvers
- Passing data (Model, ModelAndView)

3. Form Handling & Validation

- Handling forms with @ModelAttribute
- JSR-303 Bean Validation (@Valid, BindingResult)
- Custom Validators

4. Exception Handling

- @ExceptionHandler & @ControllerAdvice
- Global exception handling

5. Interceptors & Filters

- HandlerInterceptor (PreHandle, PostHandle)
- Authentication & Logging use cases

6. Database Integration

- Spring JDBC Template
- Hibernate ORM integration
- Transaction Management (@Transactional)

7. REST with Spring MVC

- @RestController, @RequestBody, @ResponseBody
- JSON & XML support
- CRUD REST APIs

8. Advanced

- File Upload & Download
- Internationalization (i18n) basics
- Intro to Spring Security (Authentication, Authorization)

Spring Boot

1. Basics

- What is Spring Boot & advantages over Spring MVC
- Project setup (Spring Initializr, Maven/Gradle)
- application.properties / application.yml

2. REST API Development

- @RestController, @GetMapping, @PostMapping
- Handling Request Data (@RequestParam, @PathVariable, @RequestBody)
- Returning JSON responses with ResponseEntity
- Exception Handling (@ExceptionHandler, @ControllerAdvice)

3. Database Integration

- Spring Data JPA & Hibernate
- Entity Mapping (@Entity, @Id, @GeneratedValue)
- CRUD operations with JpaRepository
- Pagination & Sorting

4. Projects

- Mini: Employee Management REST API
- Major: E-Commerce REST API with JWT Authentication

Web Frontend Basics (HTML, CSS, JS)

1.1 HTML (Structure of Web Pages)

- Introduction to HTML & Web
- Basic tags: html, head, title, body
- Headings, paragraphs, links, images, lists
- Tables & forms
- Semantic HTML (header, footer, section, article)
- HTML5 elements (video, audio, canvas)

1.2 CSS (Styling Web Pages)

- Inline, Internal & External CSS
- Selectors (element, class, id, group, pseudo-classes)
- Box model (margin, border, padding)
- Colors, fonts, backgrounds
- Flexbox & Grid layout
- CSS Positioning (static, relative, absolute, fixed, sticky)
- Transitions & animations
- Responsive design (media queries)

1.3 Bootstrap (CSS Framework)

- Introduction to Bootstrap 5
- Container, rows & columns (Grid system)
- Buttons, alerts, badges, cards, navbars
- Forms & tables styling
- Modals, dropdowns, tooltips

1.4 Tailwind CSS (Utility-First CSS Framework)

- Introduction & installation (CDN, npm, Vite setup)
- Utility classes for spacing, colors, typography
- Flexbox & grid utilities
- Buttons, cards, navbars with Tailwind
- Dark mode & responsive design

1.5 JavaScript (Adding Logic to Web Pages)

- Introduction & syntax
- Variables (let, const, var)
- Data types & operators
- Control structures (if-else, switch, loops)
- Functions & scope
- DOM Manipulation
 - Selecting elements (getElementById, querySelector)
 - Changing content & styles
 - Event handling (click, hover, form submit)
- Arrays & objects basics
- ES6 Features: arrow functions, template literals, spread/rest operators

React Frontend Development

3.1 React Basics

- React project setup (Vite/CRA)
- JSX & rendering
- Components (functional & class-based)
- Props & state
- Event handling & forms

3.2 React Advanced

- React hooks (useState, useEffect, useContext, useReducer)
- Context API for global state
- React Router (protected routes, nested routing)
- Error boundaries

3.3 UI & Styling

- Tailwind CSS / Bootstrap with React
- Component libraries (Material UI, Ant Design, ShadCN)
- Responsive design & layout

3.4 State Management

- Redux Toolkit (slices, async thunks)
- RTK Query for API requests
- Best practices for managing state

4. SPRING BOOT API + React Integration

- Consuming SPRING BOOT REST API in React (fetch/axios)
- Handling authentication in React (JWT storage, refresh tokens)
- Protected routes & role-based access
- CRUD operations from React frontend to SPRING BOOT backend
- File upload/download with React & SPRING BOOT
- Web Security
- Use JWT Token under REACT

5. Interview Preparation (Ongoing)

- JAVA CORE interview questions
- SPRING BOOT interview questions
- System design for full-stack projects
- Resume & portfolio building (GitHub, LinkedIn, project hosting)

9. AI-Powered JAVA FULL Stack Course Content

- AI in React – AI-powered UI components (Chatbot, Auto-suggest, Image Generator using APIs)
- Industry Skills – GitHub, CI/CD, Cloud Deployment (Vercel, AWS, Render)
- How to Write Better Prompts (Prompt Engineering)
- How to Build Front-end with AI Tools (GitHub Copilot, Framer, GSAP)
- How to Integrate AI Tools (GITHUB CO-PILOT) in IDE (VS Code)

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