

Vaibhav Kumar

+91 9350121202 | kumarvaibhav26072003@gmail.com
LinkedIn | GitHub | LeetCode | Codeforces | CodeChef

Summary

Software Development Engineer with nearly one year of experience at Bank of New York, specializing in building scalable Angular and TypeScript micro-frontends, and now expanding into Java/Spring Boot backend development. Passionate about applying structured problem-solving techniques, honed through competitive programming, to deliver robust and maintainable software solutions. Strong emphasis on secure coding practices, unit testing, and continuous integration.

Experience

Software Development Engineer

Bank of New York (BNY) July 2024 – Present

- Contributed to building and launching a production-ready Angular and TypeScript micro-frontend for the Money Movement Platform, developing core UI modules that enable associates to initiate, approve and monitor client fund transfers—while optimizing performance via lazy loading and code splitting.
- Expanded role into backend development, implementing new API functionalities using Java and Spring Boot to support money-movement workflows.
- Focused on code quality and secure development by implementing rigorous unit testing using Karma, Jasmine, and TestBed (achieving 90% coverage). Integrated static analysis (SonarQube), and automated CI/CD pipelines, reducing manual testing by 30% and ensuring vulnerability-free builds.
- Contributed to BNY's AI initiatives by integrating Eliza's AI chatbot into a market insights micro-frontend and developing a Retrieval-Augmented Generation (RAG) AI agent that enables users to query and extract insights from uploaded documents.

Software Development Intern

Citibank May 2023 – July 2023

- Developed a POC “Application Transformation Engine” using Java, Spring Boot, and SQL to automate codebase migration processes through rule-based transformations.
- Developed an automated engine to clone code from Bitbucket repositories, streamlining the process of retrieving and preparing codebases for transformation.
- Implemented rule-based code transformations by sourcing coding standards from SonarQube and applying them with custom regular expressions (regex) for automated code rewriting.

Education

Indian Institute of Technology, Roorkee

B.Tech. (Civil Engineering)

Graduation: 2024 | CGPA: 8.031/10

St. Francis Xavier School, Hisar

Class XII (CBSE), 2020: 92.80%

Class X (CBSE), 2018: 93.40%

Achievements

• Codeforces: 1844 (Expert)

- Global Rank 189 | Round 879
- Global Rank 212 | Round 921
- Global Rank 542 | Round 840
- Global Rank 576 | Round 893

• CodeChef: 2066 (5 star)

- Global Rank 45 | Starters Round 60
- Global Rank 66 | Starters Round 116
- Global Rank 81 | Starters Round 114
- Global Rank 98 | Starters Round 61
- Global Rank 24 — Secure Code Tournament, March Madness 2025 (BNY)
- Finalist, Investor's Vista, E-Summit 2022, IIT Roorkee

Skills

Languages: Java, C/C++, SQL, JavaScript, TypeScript

Frameworks & Libraries: Angular, React.js, Spring Boot, Node.js, REST APIs

Tools: Git/GitHub, IntelliJ, VS Code, Postman, SonarQube, MongoDB, Karma, Jasmine, TestBed

Concepts & Methodologies: Micro-frontends, Microservices, Backend Development, RESTful API Design, Unit Testing, Static Analysis, CI/CD, Agile, OOP, DSA, Secure Coding Practices, Code Coverage, NoSQL

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Probability and Statistics, Machine Learning