

Mayank Netam

Education

Indian Institute of Information Technology, Pune

B.Tech Computer Science Engineering

2024-26

CGPA: 8.2

Personal Projects

Mutual Fund Investment Backend System

Technologies: Java, Spring Boot, MySQL, JWT, REST API, Apache Kafka

- Designed and implemented a RESTful backend for a mutual fund investment simulation platform using Spring Boot and MySQL.
- Developed secure user authentication and authorization using JWT, allowing users to register, log in, and access protected APIs.
- Developed a separate Email Service and used Kafka to enable communication with rest of the application.
- Built investment simulation APIs enabling users to invest virtual funds, track NAV-based performance, and view transaction history.
- Followed clean code principles and layered architecture (Controller-Service-Repository) to ensure maintainability and scalability.

AI Code Reviewer

Technologies: React.js, Express.js, MongoDB, Google APIs, AI/ML

- Designed and developed an AI-driven code review application using the MERN stack (MongoDB, Express.js, React, Node.js) to enhance software development efficiency.
- Implemented machine learning algorithms for automated code analysis, detecting errors, suggesting optimizations, and ensuring compliance with best coding practices.
- Developed AI-driven bug detection and performance enhancement features, successfully identifying 300+ potential bugs per week, reducing code review time by 40%, and accelerating pull request approvals.
- Improved software maintainability and security by enforcing automated code quality checks, helping developers merge 15% more code safely.

Chatty

Technologies: React.js, Express.js, Socket.io, Tailwind CSS, MongoDB, Node.js

- Designed and developed a real-time chat application using the MERN stack (MongoDB, Express.js, React.js, Node.js) to facilitate instant messaging with low-latency performance.
- Implemented secure user authentication (JWT, OAuth) and real-time online/offline status tracking, improving user engagement and security by 30%.
- Optimized server performance and database queries, reducing message delivery latency by 40% and enhancing concurrent user handling capacity.
- Deployed the application on a cloud-based infrastructure (AWS/Heroku/Vercel), ensuring scalability, high availability, and accessibility with a unified frontend-backend deployment.

Technical Skills and Interests

Languages: Java, C, C++, Python, HTML, CSS, JavaScript, Java, TypeScript

Technical Competencies: Git/GitHub, VS Code, Google Colab, JDBC

Frameworks: React.js, Tailwind, Express, Next.js

Databases: MySQL, MongoDB

Coursework: Object-Oriented Programming, Data Structures and Algorithms, Database Management System, Operating System, Computer Networks, Machine Learning, Artificial Intelligence, Software Engineering

Areas of Interest: Machine Learning, Artificial Intelligence

Achievements

- Solved **500 + DSA problems** across diverse competitive programming platforms, showcasing algorithmic proficiency
- Achieved the max rating of **1546** in CodeChef