PRASHANT VERMA

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PROFILE SUMMARY

Software engineer specializing in web applications and distributed systems. Engineered a video conferencing platform with WebRTC and Socket.IO, implementing real-time communication features. Developed a scalable file transfer system using React and Spring Boot microservices. Proficient in full-stack development with React.js, Node.js, and Spring Boot. Currently pursuing computer science while exploring AI and cloud technologies.

WORK EXPERIENCE

- AICTE Eduskills Virtual Internship on AI-ML   *Feb-Apr 2025*

PROJECT EXPERIENCE

Google Meet Clone

- Engineered a full-stack video conferencing platform using React.js, WebRTC, and Socket.IO, supporting up to 100 concurrent users with features including screen sharing, chat functionality, and meeting recordings.
- Implemented real-time communication protocols and WebSocket architecture, reducing average connection setup time to under 500ms and enabling seamless multi-user video streams.
- Built a responsive UI with Material-UI components, integrated user authentication using JWT, and developed RESTful APIs with Node.js/Express to handle room creation and user management.

Duplicate File Cleaner

- Developed a cross-platform file transfer application using Electron and JavaScript, enabling seamless file sharing across Windows, macOS, and Linux with support for files up to 10GB.
- Implemented background file synchronization and compression algorithms, achieving average transfer speeds of 100MB/s and reducing disk usage by 25% through efficient chunking.
- Built a modern desktop interface using React and Electron IPC, incorporating drag-and-drop functionality, transfer progress tracking, and system tray integration for improved user experience.

Bitly Clone

- Built a scalable URL shortening service using Spring Boot and Redis cache, handling 1000+ daily requests with features including custom aliases, QR code generation, and click analytics.
- Implemented efficient database indexing and caching strategies with MySQL, achieving average URL redirect times under 50ms and maintaining a 99.5% cache hit rate.
- Designed RESTful APIs with Swagger documentation, integrated automated testing using JUnit and Mockito, achieving 85% test coverage and enabling CI/CD pipeline integration.

File Transfer Manager

- Developed a secure file transfer system using Spring Boot and AWS S3, featuring end-to-end encryption, role-based access control, and support for files up to 5GB with resumable uploads.
- Implemented OAuth 2.0 authentication and JWT tokens for secure user management, enabling granular file permissions and maintaining audit logs for all file operations.
- Created automated test suites using JUnit and Mockito, achieving 90% code coverage, and integrated monitoring tools for real-time system health tracking and error logging.

LANGUAGES AND SKILLS

Languages:

Java, Python; Web Technologies: HTML, CSS, JavaScript, TypeScript, React, React Native, NextJS, NodeJS, Spring, Spring Boot

Skills:

Databases: MongoDB, MySQL;

Version Control: Git and GitHub;

Other: Docker,Kubernetes, Linux; Data Structures and Algorithms (DSA)

EDUCATION

- Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha   *2022-2026*
  Branch: CSE | CGPA: 8.3