Mridul Rakhecha

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EDUCATION

VIT Bhopal University   Aug 2021 – May 2026 (Expected)
Integrated M.Tech in Artificial Intelligence & Machine Learning | GPA: 8.2/10

EXPERIENCE

Concept Information System Pvt. Ltd.   Nov 2023 – Feb 2024
Web Developer Intern, Indore, India

- Collaborated within a 3-member team to design and develop a 5-page corporate website, integrating 3 lead generation forms.
- Optimized web performance by reducing image asset sizes by 40%, cutting average local page load time from 4.2 to 2.5 seconds.
- Improved user experience and accessibility by leading 20+ compatibility checks across devices and browsers, resolving key layout and access issues before internal review.

TECHNICAL PROJECTS

Ticket Booking System Backend (GitHub)   Jul 2025 – Aug 2025

- Developed a Java-based backend application with a command-line interface offering 7 user options for train ticket bookings and management.
- Implemented secure user signup and login with password hashing; user data (name, userID, hashed password) persisted in JSON files for secure and lightweight storage.
- Enabled full ticket lifecycle features including viewing available trains, booking tickets, viewing booked tickets, and cancelling bookings.
- Enforced login requirement before accessing booking features to ensure authenticated user experience.
- Handled file I/O operations and business logic solely at the backend, demonstrating strong problem-solving and core Java skills.
- Prepared groundwork for future enhancements such as database integration or frontend interface development.

Social Media Application (GitHub)   Feb 2025 – May 2025

- Engineered a Single Page Application using React and TypeScript, with 6 features validated internally by the project team using 20+ unit and integration test cases.
- Utilized Appwrite for authentication and validated core flows through manual team test sessions for signing up and logging in.
- Implemented infinite scroll functionality with mock datasets (reviewed with 50+ sample posts); kept observed errors minimal within team QA.
- Verified responsive design on 5 types of devices within the team; resolved several cross-platform issues found in collaborative evaluation.

AI Mock Interview System (GitHub)   Apr 2024 – Aug 2024

- Developed a Next.js prototype featuring 10+ routes; achieved smooth route transitions in all team-led CI tests.
- Used Vapi SDK to simulate voice-based interviews and generated sample technical questions with Google Gemini API for the team.
- Designed and implemented 5 data entry forms with Zod schema validation, achieving accurate handling of user errors tested by the team.
- Added mock interview data in Firebase for quality checks and feature development, reviewed by all team members.
- Automated linting, type checks, and deployments with GitHub Actions; helped reduce recurring code issues in group code reviews.

SKILLS & TECHNOLOGIES

Languages: JavaScript, TypeScript, C++, Java, Python, R, HTML, CSS
Frameworks & Libraries: Spring Boot, React, Next.js, Express.js, Tailwind CSS
Build Tools: Maven, Gradle, Vite
Databases & Auth: Firebase, MongoDB, Appwrite, SQL, PostgreSQL
Tools: Git, GitHub Actions, Jest, Prettier, Vercel, Turbopack, Power BI, Tableau, Excel
Practices: REST APIs, regular Data Structures & Algorithms problem-solving (LeetCode/GFG)

CERTIFICATIONS

Udemy — Full-Stack Web Development Completed 48-hour course; built and deployed 3 web apps with REST APIs using HTML, CSS, JavaScript, Node.js, Express.js, MongoDB.
SmartBridge — MERN Stack Developer Contributed features and code review; followed agile workflows using Git version control.