Ashutosh Tiwari

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Summary

Full Stack Developer with experience in React, Spring Boot, and Java for building scalable REST APIs and robust backend systems. Skilled in Frontend and Backend Development, API Integration, and Full Stack Development with expertise in SQL, Linux, and CI/CD pipelines. Strong background in Agile methodologies, unit testing, and code reviews, ensuring technical excellence, quality, and performance. Experienced in cross-functional collaboration, problem solving, and leveraging design patterns like SOLID design principles to build scalable, maintainable and reliable software solutions.

Skills

- Languages: Java, JavaScript, Python, SQL
- Backend: Spring Boot, Spring MVC, Spring Security, Hibernate, REST APIs, Microservices
- Frontend: React.js, HTML5, CSS3, JavaScript (ES6), Bootstrap
- Database: MySQL, PostgreSQL, MongoDB, Oracle
- DevOps & Tools: Git, GitHub, Maven, IntelliJ IDEA, Postman
- Others: Linux, STM32, MatLab, SimuLink
- Machine Learning: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

Education

Vellore Institute of Technology, Vellore, B.Tech in Electrical And Electronics Engineering   Sep 2021 - May 2025

- GPA: 8.98/10
- **Coursework:** Data Structures & Algorithms, Java Programming, Embedded Systems, Machine Learning, Power Electronics

Projects

Clinic Appointment System   Link

- Developed a REST API-based clinic appointment platform using Spring Boot for backend and React.js for frontend.
- Implemented JWT authentication, role-based access (Admin, Doctor, Patient), and secure session management.
- Designed a responsive UI for real-time appointment availability and integrated MySQL for persistent data storage.
- Implemented version control with Git and managed code repositories using GitHub for streamlined development and collaboration.
- Automated CI/CD pipeline using GitHub Actions and Hostinger webhooks to deploy React application to a custom domain on every code push and pull request.
- Tools Used: Java, Spring Boot, React JS, MySQL, IntelliJ IDEA, Spring Security, Spring Data JPA, Git, Github Actions, Hostinger Webhooks, CI/CD, FTP Deployment

ML Based Fault Detection System for Transmission Lines   Link

- Built a Random Forest Classifier to detect and classify transmission line faults using IEEE Dataport dataset (500,000+ records).
- Achieved 96% accuracy after extensive data preprocessing, feature selection, and model tuning.
- Tools Used: Python, Pandas, Numpy, Matplotlib, Sklearn, Seaborn

Experience

Engineering Intern, Igowise Mobility – Bangalore, India   Aug 2023 – Nov 2024

- Developed an automatic speed control system for electric vehicles, enabling dynamic speed and steering adjustments for improved performance and safety.
- Developed embedded solutions using STM32 microcontrollers, implementing communication protocols (UART, CAN, SPI).
- Performed EMI (Electromagnetic Interference) analysis in EV systems and designed mitigation strategies, improving system reliability.

Courses And Certifications

- Java Spring Framework 6 with Spring Boot 3 by Telusko. - Udemy, Jan 2024
- Complete Linux Training by Imran Afzal - Udemy, Nov 2024
- Supervised Machine Learning by Andrew Ng - Coursera, Mar 2023
- Software Engineer, Problem Solving (Data Structures and Algorithms) - Hackerrank 2025