Aadesh Lawange

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GitHub | LinkedIn | Portfolio

PROFESSIONAL SUMMARY

Experienced Full Stack Software Developer with over 1 year of expertise in JavaScript, Python, Java, C#, and C++ development, including proficiency in HTML5 and CSS. Specializing in ReactJs, Django, Spring/Springboot, and .NET frameworks, with a keen focus on delivering high-quality solutions. Skilled in relational database management (RDBMS) with MySQL and Oracle, alongside adept cloud deployment using AWS services. Committed to fostering collaboration and innovation to drive project success.

SKILLS

- **Programming Languages:** JavaScript, Java, Python, C#, C++, SQL
- **Web Development:** HTML5, CSS, Bootstrap
- **Libraries/Frameworks:** ReactJs, Node.js, Angular, Django, Spring, Springboot, .Net
- **Tools/Platforms:** Git, GitHub, VS Code, Eclipse IDE, PyCharm, Postman, Figma
- **Databases:** MySQL, Oracle, SQL Server, PostgreSQL
- **AWS Services:** EC2, S3, Lambda, RDS, API Gateway, Elastic Beanstalk
- **Web Servers:** Gunicorn, Nginx, Apache Tomcat

EXPERIENCE

Software Developer (SDE) | Python, Django, FastAPI, JavaScript, ReactJs, AWS, MySQL, MQTT, Web Servers, AI/ML

Guardinger Technologies Pvt Ltd | Pune, India | May 2023 – Present

Summary:

Experienced full-stack developer specializing in defense-oriented applications for clients like DRDO and Indian Naval Organizations. Proficient in **ReactJs** and **Angular** for frontend development and **Python, Django, FastAPI** for backend, with **MySQL** for database management. Skilled in **AWS**, **MQTT**, and **AI/ML** integration. Strong collaborator across frontend and backend development, ensuring smooth integration and top-tier performance.

Key Responsibilities and Achievements:

- Developed and deployed full-stack software applications for defense organizations, integrating advanced AI/ML algorithms and Signal Processing techniques for enhanced efficiency.
- Designed Restful APIs and microservices architecture for scalability and maintainability, while orchestrating efficient real-time communication using MQTT-like protocols.
- Created intuitive user interfaces with React.js or Angular, incorporating robust data visualization for comprehensive data analysis.
- Ensured cross-browser compatibility and responsive design for optimal user experience.
- Collaborated across frontend and backend development to seamlessly integrate functionalities, ensuring smooth interaction and optimal performance throughout the software ecosystem.
- Conducted thorough testing and optimization of code for performance, accessibility, and security.
- Utilized AWS infrastructure for secure and scalable deployment, implementing version control and collaborative coding practices.
- Monitored and optimized application performance for enhanced responsiveness and efficiency.

PROJECTS

AI Based Analysis of Targets (Indian Navy)

- Developed a comprehensive AI-based target classification system for the Indian Navy.
- Utilized React frontend with Plotly.js for data visualization, integrated Django for backend RESTful APIs and MQTT protocol for real-time communication, and incorporated a denoiser within the backend infrastructure to enhance target classification accuracy and efficiency in AI/ML analysis.
- Implemented socket programming to ensure efficient retrieval of physical data from the client's database for processing in AI algorithms.

Turbine Data Monitoring System (DRDO-GTRE)

- Led the development of a sophisticated Turbine Data Monitoring System for DRDO-GTRE, featuring a high-performance FastAPI backend tailored for scalability, facilitated by a RESTful API architecture and microservices.
- Engineered a robust backend architecture with multiprocessor support to handle extensive machine learning processing of gas turbine data from Excel datasets efficiently, complemented by a structured database design for seamless data storage and retrieval, including relational tables mapping for enhanced data organization.
- Designed an intuitive React frontend with dynamic tables and interactive plotly visualizations, offering users comprehensive data analysis capabilities, including logging, report generation, and PDF print views for thorough insights.

LONG TERM PASSIVE UNDERWATER SURVEILLANCE SYSTEM (Indian Naval Organization - WESEE)

- Orchestrated the development of a cutting-edge Long Term Passive Underwater Surveillance System for the Indian Naval Organization, integrating wireless IoT technology and AI algorithms for continuous autonomous data collection and signal classification.
- Engineered a robust backend infrastructure using Django APIs and MySQL database, coupled with satellite communication for seamless interception, processing, and storage of acoustic data, ensuring data integrity and accessibility for surveillance analysis.
- Implemented an intuitive React frontend with dynamic visualization features, including interactive plots, maps, and tables, augmented with AWS services for scalable backend hosting and management, enhancing situational awareness and surveillance capabilities.

EDUCATION

- **Post Graduate Diploma (PGD) – Certified Diploma in Advanced Computing (CDAC, Mumbai)**

  MET Institute of Information Technology, Mumbai | Sept 2022 – Mar 2023

- **Bachelor of Technology (B.Tech) – Electronics and Telecommunication Engineering**

  Government College of Engineering, Amravati | Aug 2018 – July 2022

  CGPA – 7.51

ACADEMIC PROJECTS

Guardinger Technologies Website Development | Website

- Developed a responsive website for Guardinger Advanced Technologies Pvt. Ltd using ReactJs, ensuring clean HTML and CSS coding practices for enhanced user experience.
- Utilized React-based components to create a visually appealing and user-friendly interface, optimizing accessibility and responsiveness across various devices.

E-Blood Seva Application | GitHub

- Engineered a full-stack application using Java Spring Boot for the backend, react for the frontend, and MySQL for the database, ensuring seamless integration and functionality across all components.
- Developed Backend functionalities to manage blood service requests, user authentication, and data processing, while designing a user-friendly React frontend interface for donors, seekers, and administrators to interact with the system efficiently.
- Leveraged MySQL database for efficient data storage and retrieval, ensuring reliability and scalability to meet the demands of managing blood service requests from NGOs, blood banks, individual donors, and seekers.

ACHIEVEMENTS

- Spearheaded Electronics and Telecommunication Association of Students (ETAS) as convener.
- Demonstrated leadership and organizational prowess, ensuring successful execution of initiatives.