Aditya Jayanti

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EDUCATION

University of Washington — Washington
Master of Science in Computer Engineering — *Sep. 2023 – Present*

National Institute of Technology Puducherry — India
Bachelor of Technology in Electrical and Electronics Engineering — *Jul. 2018 – May. 2022*

EXPERIENCE

Software Engineer and Testing Assistant — Jan. 2024 – Present
University of Washington — *Washington*

- Redesigned and upgraded the Integrated and Facilities Services Department website at the UW using React, Python, HTML, and CSS, improving its functionality and user experience.
- Conducted machine learning model evaluation for fault analysis in power systems under Professor Jie Sheng, utilizing Logistic Regression and Support Vector Machines (SVM) for accurate fault detection and classification.

Advanced Application Analyst, Accenture — Oct. 2022 – Oct. 2023
Application Discovery Suite | Java, Springboot, JDBC, MySQL, AWS, HTML, CSS, ReactJS, Angular — *India*

- Engineered core functionalities by crafting Controller and Service classes using Spring Boot and Java, delivering robust RESTful web services.
- Integrated the Spring Framework with Hibernate to enhance data access operations, improving query execution speed by 40% and minimizing overhead.
- Increased the unit test coverage from 30% to 70% using JUnit and Mockito framework to improve code quality and early bug detection.
- Generated automated workflows integrating CI/CD processes for deploying applications in a containerized environment powered by Docker orchestrated through Kubernetes on Amazon Web Services.
- Actively participated in the code review process of the team, providing and receiving meaningful feedback to ensure high code quality.

Research Intern, NIT AP — Jun. 2020 – Aug. 2020
SafeFace | Python, OpenCV, CNN — *India*

- Developed an intelligent system to detect face masks using image processing techniques and deep learning algorithms.
- Utilized Pandas and NumPy for data preprocessing and implemented machine learning algorithms using Scikit-learn to develop a face mask detection system, acheiving accuracy of 97.3% in detection.

PROJECTS

Hospital Management System | *Java, Springboot, JDBC, MySQL, AWS, HTML, CSS, JavaScript, NLP*

- Simplified a dynamic web application using Java, JSP, and MySQL, featuring a user-friendly interface for appointment management.
- Initiated a robust AI chatbox leveraging natural language processing to enhance appointment scheduling efficiency.

Student Directory | *Java, Springboot, JDBC, MySQL, React, HTML, CSS, JavaScript*

- Created an advanced web application utilizing Java technologies to analyze and track vital details for over 3,000 students.
- Led the project design, development, maintenance, and monitoring of backend services, REST APIs, and user interfaces.

RESEARCH PUBLICATIONS

Fault Analysis on Multi-Terminal System Using Wavelet Morphing and Machine Learning Technique | International Journal of Engineering

- Explored the application of machine learning algorithms in conjunction with wavelet morphing techniques to improve fault detection and classification in multi-terminal power systems.
- Integrated machine learning techniques to identify faults and categorize them based on their nature and origin.

TECHNICAL SKILLS

Languages: Java, Python, C++, C, Bash, .NET
Web Development: JavaScript, TypeScript, HTML, CSS, Bootstrap
Databases: MySQL, NoSQL, Redis, MongoDB, Oracle Database, PostgreSQL
Technologies & Frameworks: REST API, Angular, NodeJS, ReactJS, Spring Boot, Power Mockito, Jenkins, Docker, Kubernetes, NumPy, Pandas, OpenCV, Matplotlib, Keras, Apache Tomcat, CI/CD Pipelines, Git, Linux, Selenium
Concepts: Object Oriented Programming, Machine Learning, LLM, ANN, MVC, Agile, CNN, Cloud Computing, Design Thinking, Generative AI, Power BI
Cloud Services: AWS (Lambda, RDS, API Gateway, EC2, S3, CloudWatch), Azure IoT, Azure SQL DB, Microsoft Azure IoT

CERTIFICATIONS & ACHIEVEMENTS

AWS Cloud Practitioner: Amazon Web Services
Java: HackerRank
SQL: HackerRank
Python: Google
Most Valuable Teammate (MVT) Award: Awarded for contributions to the Application Discovery Suite team at Accenture