

Aditya Jayanti

Seattle, USA | +1 425-961-3320 | jssaditya09@gmail.com | [Linkedin-Aditya-jss](#) | [Aditya-jss—GitHub](#) | [Aditya-Portfolio](#)

Education

Masters in Computer Engineering

University of Washington

September 2023-Present

Washington

Bachelors in Electrical and Electronics Engineering

National Institute of Technology Puducherry

July 2018-May 2022

India

Professional Experience

Accenture

November 2022-October 2023

Advanced Application Analyst

India

Application Discovery Suite- (Java, Springboot, JDBC, MySQL, AWS, HTML, CSS, ReactJS, Angular).

- Designed and implemented key functionalities by creating Controller and Service classes using Spring Boot, Java, and Restful web services.
- Integrated the Spring Framework with Hibernate to streamline data access operations. This enabled seamless communication between the business logic and the database layer, significantly improving query performance and reducing database overhead.
- Increased the unit test coverage from 30% to 70% using JUnit and Mockito framework to improve code quality and early bug detection.
- Deployed the service using Docker and Kubernetes on AWS to ensure isolation from the main system, optimized performance with CI/CD process.

Inventory Management System- (HTML, CSS, Python, Javascript, ReactJS).

- Designed and implemented a responsive user interface using HTML, CSS, and JavaScript, improving the seller experience. Developed a robust backend with Node.js and Express, creating RESTful APIs to streamline CRUD operations for managing product data. Additionally, optimized the MySQL database schema and applied caching strategies, leading to a 15% reduction in query response times.
- Led the design and optimization of the MySQL database schema, enhancing data storage and retrieval efficiency. Utilized Microsoft Azure for application hosting, ensuring high availability and scalability to meet growing user demand.

Internship, NIT Andhra Pradesh

Research Intern- (Python, OpenCV, CNN).

June 2020-August 2020

- Involved in the development of 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. Employed Logistic Regression, Convolutional Neural Networks (CNN), to accurately classify mask presence.

Projects

Hospital Management System- (Java, Springboot, JDBC, MySQL, AWS, HTML, CSS, JavaScript, NLP).

- Developed a dynamic web application using Java, JSP, and MySQL, featuring a user-friendly interface for appointment management.
- Implemented a sophisticated AI chatbox utilizing NLP to streamline the scheduling process, enabling users to effortlessly book appointments. This solution significantly enhanced user experience and operational efficiency in both backend development, Microsoft Copilot Generative-AI integration.

E-Commerce Website- (HTML CSS, Java, Javascript, ReactJS, Flask, MySQL).

- Built a fully functional e-commerce platform using a combination of HTML, CSS, JavaScript, and React.js for the frontend, and Java for the backend, delivering a seamless shopping experience. Leveraged React.js to create dynamic and reusable components for product listings, shopping cart functionality, user authentication, and order management, improving overall performance and user engagement.
- Integrated Razor Pay Payment Gateway into a fully functional e-commerce platform, allowing for secure and seamless transactions.

Student Directory- (Java, Springboot, JDBC, MySQL, AWS, HTML, CSS, JavaScript).

- Built a comprehensive web application utilizing Java, the Spring Framework, and Hibernate to manage a student directory efficiently. The application captures and organizes student information, including mobile numbers and country-specific data, allowing for robust management and accessibility.
- Led the project design, development, maintenance, and monitoring of backend services, REST APIs, and user interfaces, utilizing Java for backend development and React for UI design.

Research & Publications

Fault Analysis on Multi-Terminal System Using Wavelet Morphing and Machine Learning Technique. (International Journal of Engineering Education)

- The goal of my research is to explore the application of machine learning algorithms in conjunction with wavelet morphing techniques to improve fault detection and classification in multi-terminal power systems.
- The system is designed to precisely locate the faults within the network significantly reducing downtime and enhancing operational efficiency.
- It integrates machine learning techniques to not only identify the occurrence of faults but also categorize them based on their nature and origin.

Skills

Programming Languages: Java, Python, C++, Bash.

Web Development: JavaScript, HTML, CSS, Bootstrap.

Databases: MySQL, NoSQL, Redis, MongoDB, Oracle Database, PostgreSQL.

Technologies & Framework: Rest API, Angular, NodeJS, ReactJS, Spring Boot, Power Mockito, Jenkins, Docker, Kubernetes, NumPy, Pandas, OpenCV, Matplotlib, Keras, Apache Tomcat, CI/CD Pipelines.

Concepts: Object Oriented Programming, Machine Learning, LLM, ANN, MVC, Agile, CNN, Cloud Computing, Design Thinking.

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-** Hacker Rank
- SQL-** Hacker Rank
- Python** –Google
- Awarded **Most Valuable Teammate(MVT)** Award in acknowledgement of my contributions to the Application Discovery Suite team in Accenture.