# Aditya Jayanti

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## Education

**Masters in Electrical and Computer Engineering**                                                             September 2023-Present
University of Washington                                                                                                                    Washington
**Bachelors in Electrical and Electronics Engineering**                                                                     July 2018-May 2022
National Institute of Technology Puducherry                                                                                                        India

## Professional Experience

**Accenture**                                                                                                                    November 2022-October 2023
**Advanced Application Engineering 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.
- Successfully integrated external Payment Gateway APIs, expanding the application's capabilities and performance to process various payment methods.
- Increased the unit test coverage from 30% to 70% using JUnit and Mockito framework to improve code quality and early bug detection.
- Optimized the performance of key services, leading to reduced response times and higher throughput for critical application operations.

**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**

**Summer Internship, NIT Andhra Pradesh- 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 natural language processing to streamline the scheduling process, enabling users to effortlessly book appointments with doctors by simply typing their requests. This solution significantly enhanced user experience and operational efficiency, demonstrating advanced skills in both backend development and 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.
- Implemented advanced search functionalities to help students find housing options based on various criteria and facilitated room-sharing arrangements in international locations. Leveraged the Spring Framework to create a scalable architecture and used Hibernate for seamless object-relational mapping, ensuring efficient data management.

## Research & Publications

**Fault Analysis on Multi-Terminal System Using Wavelet Transform and Wavelet Morphing Technique. (SSRG International Journal)**

- Volume 8 Issue 6, 28-37, June 2021
- 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**.**
- Completed all paperwork, recognizing any discrepancies and addressing them in a timely fashion.

## 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.
**Concepts:** Object Oriented Programming, Dynamic Programming, Machine Learning, 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.
**Software:** IntelliJ, VS Code, Postman, Eclipse

## 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.