

Sri Sailesh

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EDUCATION

University of Washington

Master of Science in Computer Engineering

Washington

Sep. 2023 – Mar. 2025

Vignan's Lara Institute Of Technology And Science

Bachelor of Technology in Electronics and Communication Engineering

India

Jul. 2017 – Jul. 2021

EXPERIENCE

Software Engineer

Jan. 2024 – Mar. 2025

University of Washington

Washington

- Rebuilt the Integrated and Facilities Services Department website at UW using React, Python, HTML, and CSS; enhanced load times by 30 seconds leading to a more streamlined user experience for visitors.
- Conducted machine learning model evaluation for smart grid analysis in power systems under Professor Logan, utilizing K-Means and Decision Tree for classification.

Software Engineer, Wipro

Sep. 2021 – July. 2023

Aditya Birla Health Insurance | Java, Spring Boot, JDBC, MySQL, AWS, HTML, CSS, ReactJS, Angular

- Developed and optimized RESTful APIs using Java and Spring Boot, significantly improving application scalability and reducing response times by an average of 200 milliseconds per request.
- Integrated Hibernate with Spring Framework for efficient ORM-based database access, optimizing query performance by 40% and ensuring seamless interaction with MySQL databases.
- Designed and deployed microservices architecture for health insurance management, facilitating modular, scalable, and maintainable solutions with Spring Boot and AWS.
- Implemented CI/CD pipelines using Jenkins, Docker, and Kubernetes, automating the build, test, and deployment process, reducing manual efforts by 60%.
- Led the front-end development of dynamic UI components using ReactJS, Angular, and Tailwind CSS to enhance user experience and ensure cross-platform responsiveness.
- Leveraged AWS services like Lambda, S3, API Gateway, and RDS for cloud-native application development, ensuring high availability and fault tolerance.

PROJECTS

ETL Pipeline | AWS Lambda, AWS S3, Amazon Aurora(PostgreSQL I/O Optimized), Java

- Designed and implemented an ETL pipeline for a cloud computing project leveraging AWS Lambda to perform the transform, load, and query steps.
- Stored input CSV data sourced from Kaggle in an S3 bucket, transformed it by calculating gross margin and modifying column content, and reloaded the processed data into an Amazon Aurora PostgreSQL database.

Amazon Website Clone | Java, MySQL, ReactJS, HTML, CSS, JavaScript

- Developed a fully functional e-commerce platform with product listings, user authentication, and a shopping cart system.
- Designed and implemented RESTful APIs for secure and efficient data transactions between the front-end and database.
- Optimized performance through lazy loading, caching strategies, and responsive UI using React and Tailwind CSS.

AI-Powered Home Energy Management System | Python, MySQL, ReactJS, HTML, CSS, JavaScript

- Developed a smart home energy monitoring system with AI-driven analytics, optimizing power consumption and reducing costs by 20%.
- Designed and implemented a dynamic React-based dashboard for real-time energy usage visualization and appliance control.
- Integrated machine learning models to predict energy demand patterns and automate appliance operations for improved efficiency.

TECHNICAL SKILLS

Languages: Java, Python, C++, C#, Bash, .NET

Web Development: JavaScript, TypeScript, HTML, CSS, ReactJS

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

Technologies & Frameworks: REST API, Angular, NodeJS, Spring Boot, Power Mockito, Jenkins, Docker, Kubernetes, NumPy, Pandas, OpenCV, Matplotlib, 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

Cloud Services: AWS (Lambda, RDS, API Gateway, EC2, S3, CloudWatch), Microsoft Azure SQL DB, Microsoft Azure IoT

CERTIFICATIONS & ACHIEVEMENTS

AWS Academy Cloud Practitioner: Amazon Web Services

AWS Academy Machine Learning: Amazon Web Services

Java: HackerRank

Python: Kaggle

Most Valuable Teammate (MVT) Award: Awarded for contributions to the Aditya Birla team at Wipro