Shwetha Shyam Bhandary

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EDUCATION

M.S. Computer Software Engineering   Aug 2022 - May 2024
San Jose State University, San Jose, CA   GPA: 3.7/4.0

B.E. Computer Science   Aug 2016 - Aug 2020
Visvesvaraya Technological University, India   GPA: 8.33/10

RELATED COURSEWORK

Programming in Java, C/C++, Python, Data Structures and Algorithms, Database Management System, Machine Learning, Object-Oriented Programming, Software Development Life Cycle, Operating Systems, Cloud Computing, Virtual Technologies, Software Testing/Quality, Wireless Network, Web Design UI/UX.

TECHNICAL SKILLS

Languages   Python, Java, JavaScript, C/C++, UNIX Shell Scripting, Bash, SQL.
Databases   MySQL, PostgreSQL, Oracle Database, MongoDB, MariaDB
Web Development   HTML5, CSS, Spring Boot, PHP, Node.js, React.js, Rest APIs, Apache Kafka.
Tools   Git, Docker, AWS Cloud (EC2, S3, RDS, ECR), Jira, Junit, SonarQube

WORK EXPERIENCE

Infosys - *Software Engineer*   **Nov. 2020 - Jun. 2022**
Project: Cathay Pacific Airlines   **Bangalore, India**

- Led the development of a **Java Spring Boot microservice** for managing Cathay Pacific Airlines' HR system, crafting **REST API** contracts and employing **event-driven messaging via Kafka** for scalable, asynchronous communication between **microservices**.
- Worked on the migration of a legacy **Oracle database** to a high-performance **PostgreSQL** alternative to enhance query execution speed, while ensuring code quality with comprehensive **JUnit test coverage** and achieving **SonarQube** accuracy of over 85%.
- Containerized the project using **Docker** and deployed it using **CI/CD pipelines in the AWS** environment.
- Recognized with Insta **Award for Outstanding Performance** among a team of 53 colleagues

Project: Network Error Detection

- Orchestrated the development of a **Fullstack web application** for a network error detection project, leveraging **Python** for backend and **Javascript, React JS, Redux** for frontend design.
- Implemented **REST APIs** to facilitate seamless communication between the frontend and backend, with data storage managed efficiently in **Oracle DB**.

AatmanirbharTours - *Web Developer*   **Mar. 2020 - Oct. 2020**
Project: Organizational Website   **Bangalore, India**

- Developed a dynamic travel agency website single-handedly, incorporating **HTML, CSS, JavaScript, and React** for heightened interactivity, with stripe **payment gateway integration** and established a secure and scalable backend using **Node.js on AWS EC2**, optimizing database management through **Amazon RDS.**
- Implemented effective **SEO strategies,** monitored website traffic, and orchestrated large-scale deployment with AWS Auto Scaling for dynamic resource management.

PROJECTS

IntelliTool- Your AI Companion   **Python, Machine Learning, React, Node.js**

- Created a student companion tool with a focus on highlighting essential points in online lectures, complemented by a platform for administering frequent mock tests.
- Constructed with Python and deployed on AWS EC2, utilizing SQS and S3 for cost-effective scaling, the application demonstrated efficient handling of high volumes of traffic during an evaluation with 1000 concurrent requests.

DroneVerse - Stanford University Hackathon   **AWS, React, Node.js, MySQL, Figma, MongoDB**

- Developed a drone rental Application at Treehacks, to empower small-scale farmers with real-time crop monitoring; furthered the project for large-scale implementation, optimizing operational workflow by 30% through AWS Lambda functions for order processing, notifications, and updates.
- Improved system efficiency by developing a CLI tool for rigorous testing on 1,000 test orders, ensuring comprehensive functionality and performance evaluation, thereby ensuring a seamless and efficient user experience.

SCHOLARSHIPS

SAP Lab Student Grantee, T Thomas Scholarship by Unilever, Grace Hopper Celebration India Student Scholar