DEEPIKA SULAKHE

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EDUCATION

Santa Clara University, **Santa Clara, CA**   January 2023 - Present
Master's in Computer Science and Engineering   GPA: 3.8
Srinivasa Ramanujan Institute of Technology (SRIT), India   June 2015 - May 2019
Bachelor of Technology in Electrical and Electronics Engineering   GPA(WES):   3.3

EXPERIENCE

Santa Clara University   Santa Clara, CA
Undergrad Teaching Assistant   March 2024 – Present
- Working as under grad teaching assistant for the course Data Structures ,Programming Language C++.
- Duties: Helping students with Doubts during office hours, Solving the given assignments, Grading the assignments.

IOT Research Assistant   October 2023 - Present
- As a research assistant at Epic Lab, we are working on creating a low cost and sustainable device for measuring dissolved oxygen in oceans, which aids in monitoring aquatic life.
- We are using **Arduino Uno**, **Arduino IDE** and **Python** to test the data collection locally. We are also conducting various experiments to test oxygen sensors in different water conditions to improve accuracy of the readings.

Mindtree Ltd   Bengaluru, India
Software Engineer   October 2019 - January 2022
- Worked as a Frontend Developer and Backend Developer for various projects with **Metro AG**.
- Technologies used Java, Spring Boot, React-Redux, MongoDB, Cassandra DB, Swagger and Postman, Jira, Maven, GitHub.
- I implemented **RESTful APIs** using the Spring Boot framework in **Java** and written Junit testcases with more than 90% code coverage.
- I crafted **reusable web components utilizing React JS**, used by Metro AG's **suppliers worldwide**.
- Successfully **resolved defects and bugs in QA, UAT, and production** environments, in accordance with **Agile methodology**, ensuring flexibility and responsiveness.
- I collaborated with geographically dispersed teams, including business analysts, to facilitate discussions and drive **user-story development**.
- Received the **A-team member award** and **Gracious Award** as client appreciation. I provided training to new team members to help them quickly integrate into the project.

PROJECTS

Santa Clara University   Santa Clara, CA
Flight Reservation Application   October 2023 - December 2023
- As a group we created a Flight Reservation application where multiple users can book flight, manage, and edit the reservations.
- The backend, developed in **Java using the Spring Boot framework for REST API functionality**, the **frontend, implemented in ReactJS** for the GUI client-server model.
- The application's data management was achieved through **MySQL Workbench**.

Face mesh generation   January 2023 - February 2023
- As a trio, we developed a distributed solution for generating a facial mesh given an input video with a human face.
- We embarked on a journey to **trace facial points** and forge a mesmerizing **face mesh adorned with Delaunay Triangles** using **OpenCV.**
- The distributed system was simulated using **Python3 multithreading**, which used a **fork-join** model to distribute frames and collected the final frames to generate a video with mesh overlaid on top of human face.

Mindtree Ltd   Bengaluru, India
Capstone Project   April 2021 - June 2021
- As a capstone project at Mindtree, I worked on a backend application of **Food Ordering Service(end to end)** like **Door Dash**.
- The backend is comprised of three services (**restaurant-service, ordering-service, and delivery service**) which are connected through **Microservices(Kafka)** and **Zuul proxy** is used to provide dynamic routing of incoming API requests to their respective service.
- All the microservices are registered through **Eureka Server** configuring ports and service URLs.

TECHNICAL SKILLS

Programming Languages: Java(4 years), JavaScript(3 years), Python(2 years), C (3 years)
Databases: MySQL, MongoDB, Cassandra
Tools: Spring Tool Suite, Eclipse, Arduino IDE, Postman, Swagger, Git, JIRA, Visual Studio Code, MS Excel
Platforms & Frameworks: Docker, Azure, Linux, React JS, Bootstrap, OpenCV, Kafka

RELATED COURSEWORK

Design Analysis of Algorithms, Computer Architecture, Operating Systems, Machine Learning ,Artificial Intelligence, Distributed Systems, Computer Networks, Object-oriented design analysis,

CERTIFICATIONS

Coursera: Spring Boot Hands-On, Spring Hibernate, JavaScript, Node JS and React JS.