

Romik Amipara

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EDUCATION

University of Southern California

Los Angeles, CA

Master of Science in Computer Science

Jan 2022-Dec 2023

Relevant Coursework: Analysis of Algorithms, Artificial Intelligence, Machine Learning, Web Technologies, Information Retrieval

Mumbai University

Mumbai, India

Bachelor of Engineering in Computer Engineering

Aug 2017-July 2021

Relevant Coursework: Operating Systems, Distributed & Cloud Computing, Computer Networks, Data Structures & Algorithms, Computer Architecture, Natural Language Processing, Quantum Computing & Cryptography

SKILLS

Languages & Technologies: Java, Python, JavaScript, C, C++, SQL, HTML, MySQL, PostgreSQL, MongoDB, Kafka, Spark,
Frameworks & Tools: Django, AngularJS, React.js, Node.js, Flask, JUnit, Spring, Bootstrap, Selenium, Docker, Git, Kubernetes

EXPERIENCE

Amazon

Seattle, Washington

Software Development Engineer Intern

May 2023-Aug 2023

- Designed a highly intuitive One Time Purchase customer experience within **Alexa Dash Replenishment Service's** workflow using **Spring Web MVC** framework to improve the way how diverse customers interact with the low supply notifications.
- Augmented various services to obtain comprehensive inventory data and to place order within the **Alexa app** for the first time ever. These improvements led to increased user accessibility and increased product replenishment rates by 1.25%.
- Utilized frameworks like **JUnit**, **Mockito** and **Selenium** to do extensive testing during the implementation phase of the customer experience. This resulted in optimized quality assurance leading to a seamless deployment process.

Agnels Robotics Club

Mumbai, India

Software Engineer

May 2020-May 2021

- Led a team in conceptualizing, designing, and overseeing the development of a dynamic web application using **Django** that enables users to view information and interact with the data in an efficient and systematic way.
- Built an efficient inventory management system using Django **REST framework** that empowers users to monitor their bot inventories, track profits, and expenses, resulting in an 80% reduction in manual tracking efforts.
- Tested using **Postman** and the web-app was made available to college students, it was equipped with an admin console to manage the data being displayed, facilitating live data transmission to the web.

ACADEMIC PROJECTS

Yelp Business Insider

Aug 2023

- Developed a dynamic web-app that leverages the Yelp API to curate comprehensive information about restaurants.
- Employed **Angular** to create a high-performance website that presents comprehensive details about restaurants, including a unified reservation system to manage user bookings using **MongoDB** to maintain data redundancy and high availability.
- Devised and implemented an optimized backend using **Node.js** and **Express.js** to ensure swift retrieval of data and **dockerized** it into a package, eventually the application was made available to users using **Elastic Kubernetes Service** ensuring scalability.

Music Streaming Analytics

May 2023

- Implemented end-to-end data pipeline on **Google Cloud Platform**, leveraging **Kafka** and **Spark** Streaming for real-time event processing from Eventism a simulated music streaming service.
- Designed and maintained a scalable and efficient data lake on Google Cloud Storage, ensuring periodic ingestion of streaming data every two minutes. Conducted hourly batch processing on **BigQuery** to apply transformations and generate insights.
- Orchestrated the workflow with **Airflow**, utilized **Terraform** for infrastructure as code, and **Docker** for containerization, ensuring seamless deployment and scalability. Utilized Looker Studio for building dashboards to visualize various metrics.

Exam Hall Ticket Generation System

May 2022

- Led the development of an interactive website featuring student and admin portals, using **React.js** to retrieve and display data from the backend, built using **Django and REST Framework**.
- Designed and implemented a website that generates hall tickets, verifies student forms, and diminishes manual intervention by 80%. Successfully integrated the website into the current ERP of FCRIT and deployed it on the college server.

LEADERSHIP AND INVOLVEMENT

- Provided guidance and mentorship to students regarding data analytics concepts and assignments in the capacity of a **Teaching Assistance** for a graduate-level Text Analytics course.