

Romik Amipara

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EDUCATION

University of Southern California

Master of Science in Computer Science

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

Los Angeles, CA

Jan 2022-Dec 2023

Mumbai University

Bachelor of Engineering in Computer Engineering

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

Mumbai, India

Aug 2017-July 2021

SKILLS

Programming Languages: Java, Python, Go, JavaScript, Swift

Databases: MySQL, PostgreSQL, MongoDB

Frameworks & Tools: Spring Boot, Spring MVC, Django, AngularJS, React.js, Node.js, Flask, JUnit, Mockito, Bootstrap, Selenium, Docker, Git, Kubernetes, XCode, Terraform, AWS

EXPERIENCE

Crosstown

Software Engineer

Los Angeles, California

Feb 2024-Present

- Analyzed **PostgreSQL** database to implement Node CLI commands to retrieve, purge and get information about the data which led to significant reduction in debug time.
- Examined existing errors and provided optimized solutions for concurrency control to increase throughput by 20% and reduced latency by 160ms by implementing parallel message queues.

Amazon

Software Development Engineer Intern

Seattle, Washington

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.

FCRIT

Project Developer

Mumbai

June 2020-June 2021

- 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 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.

ACADEMIC PROJECTS

Yelp Business Insider

Dec 2023

- Developed a dynamic web-app using **Angular** that leverages the Yelp API to curate comprehensive information on restaurants. Implemented a unified reservation system to manage user bookings using **MongoDB** for scalability.
- 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

Aug 2023

- Implemented end-to-end data pipeline on **GCP**, leveraging **Kafka** and **Spark** streaming for real-time event processing from a music streaming service. Utilized **Terraform** for infrastructure as code, and **Docker** for seamless deployment and scalability.
- Orchestrated the workflow with **Airflow** and maintained a scalable data lake on **GCS**, ensuring periodic ingestion of streaming data every two minutes. Conducted hourly batch processing on **BigQuery** to apply transformations and generate insights.

Expense Tracker iOS App

May 2023

- Designed and developed an iOS expense tracker app using **SwiftUI**, **CoreData**, and **UIKit**, enabling users to effortlessly monitor and analyze their expenditures.
- Implemented features for generating concise expense summary, enhancing user understanding of spending patterns.

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.