

ANIRUDH ARKERY

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Education

Santa Clara University

Master of Science in Computer Science

Santa Clara, California

Sep 2022 – June 2024

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science

Chennai, Tamilnadu

June 2017 – June 2021

Experience

Frugal Innovation Hub

Software Engineer

Santa Clara, California

May 2024 – Present

- Architected "SafeWalk", a Flutter cross-platform safety app with Google Auth and OAuth integration.
- Designed a custom matching algorithm for SafeWalk, reducing user wait times by 40%. Utilized Firebase Realtime Database and Cloud Firestore to manage volunteer data and assignments.
- Integrated OpenStreetMap for efficient navigation and real-time location tracking in SafeWalk, while implementing robust security measures such as semi-anonymous user IDs and encrypted data storage.
- Implemented SMTP with TLS encryption for secure, automated email notifications to volunteers. Increased volunteer response rate by 60% and improved real-time tracking of user whereabouts.

Legato Health Technologies (ANTHEM INC.)

Associate Software Engineer

Hyderabad, India

June 2021 – August 2022

- Spearheaded the development of advanced tools to optimize medical software systems for Medicaid and Medicare claims, achieving substantial reduction in costs and performance enhancement through Agile methodologies and AWS services.
- Designed and implemented a flexible rule engine using Java, Spring Boot, and TypeScript to interpret and apply complex validation rules to claims data, ensuring accuracy and compliance.
- Developed robust data parsing tools with Python and Node.js, standardizing claims data and reducing errors, thereby enhancing data integrity and reliability.
- Containerized applications using Docker and orchestrated with Kubernetes for improved scalability, while integrating Selenium test scripts into the CI/CD pipeline with Jenkins and Ansible to streamline deployment processes and boost overall application performance.

Projects

Distributed Systems Project | *zeroMQ, Kubernetes, PostgreSQL, gRPC, ffmpeg, Distributed Systems*

April 2023

- Engineered a distributed video processing system involving frame extraction, Delaunay triangulation, and efficient communication using gRPC between master and worker nodes.
- Executed a highly scalable client-server communication system using zeroMQ, resulting in significant reduction in processing time.

MEDI-360 | *Python, FastText, Natural Language Toolkit*

June 2023

- Developed an application using React, HTML, CSS, and JS that empowers doctors with valuable insights into prescribed drugs, improving doctors' comprehension of drug effectiveness and impact on patients.
- Used FastText and cosine similarity to improve doctors' reference capabilities by accurately matching drugs with their reviews and symptoms.

Technical Skills

- **Programming & Frameworks:** Java, Spring, React, Flutter, REST APIs, gRPC
- **Cloud, DevOps & IaC:** AWS (Lambda, SQS, DynamoDB, API Gateway), GCP, Jenkins, CloudFormation, Prometheus, Datadog
- **Databases & Security:** MySQL, DynamoDB, TLS/SSL protocols