Prajyot Karnik

prajyotkcsu@gmail.com | Dallas, TX | (510) 998-5191| LinkedIn | GitHub

With 4 YOE in Software Engineering and a Master's degree in Business Analytics, I specialize in building scalable, robust features and infrastructure for data platforms. Additionally, I enjoy writing blogs on topics such as AWS, open-source tools, and coding.

EDUCATION

California State University, East Bay - Master of Science (Business Analytics) Aug 2021 - May 2023

Data Mining, Data Warehousing, Big Data, Data Analysis with R & Python

University of Mumbai - Bachelor of Engineering (Information Technology) June 2013 - June 2017

Web Technologies, OOPM, Computer Networking, DS & Algorithms, OS

FULL-TIME EXPERIENCE

Dish Networks - Software Engineer - Plano, Texas (Hybrid) Mar 2024 - Present

- Built robust features for the data platform that routes over 1M daily events, including mechanisms such as *retry, replay, incident creation, and delay management*, using Java Spring Boot and AWS Lambdas.
- Enhanced platform storage by introducing AWS DynamoDB, enabling high query volumes and supporting key features like *automatic archival* and *Capture Data Change* with DynamoDB Streams.
- Engineered Apache Kafka infrastructure and servers to stream messages from various sources with 12% reduced cost.
- Improved developer experience by 35 % with gRPC, GraphQL APIs to expose backend databases, enhancing API reusability and speeding up preference retrieval with Redis caching.
- Migrated observability services from Dynatrace to DataDog, reducing cost by 19% and improved alerting workflow.
- Assisted SRE team troubleshoot and resolve production issues in K8s, Terraform scripts, CI/CD pipelines.

Financial Software Systems - Software Engineer - Mumbai, India Mar 2018 - Mar 2021

- Translated monolithic application into microservice using Spring Boot, and enhanced inter-communication using RabbitMQ.
- Implemented AWS Redshift and ingested data from CRM, Postgres, and NoSQL DB, resulting in 32% cost saving on BI.
- Designed a payment service supporting multi-tenant cloud storage and Kafka for data streaming across the infrastructure.
- Containerized microservices by using Dockers and deployed lean images on Kubernetes, ensuring 99% availability.

INTERNSHIPS EXPERIENCE

Orb - Software Engineer Intern - San Francisco, CA Dec 2023 - Mar 2024

- Developed and deployed Web3 features such as video encryption and transcoding using Livepeer API, leveraging Node.js and Python in GCP cloud functions on Google Kubernetes Engine.
- Designed a Flink-based real-time streaming platform for analyzing and transforming user feeds and homepage content.

Copart - Software Engineer Intern - Dallas, TX Jul 2023 - Nov 2023

- Improved payments scalability by embedding PayPal and Venmo APIs into the Ecommerce, resulting in 40% growth.
- Implemented a real-time clickstream database using Cassandra, reducing customer and vehicle data analytics query time.

United Nations - Software Engineer Intern - New York, NY Jan 2023 - May 2023

- Configured Airflow and created basic data models, data workloads to schedule alerting and monitoring.
- Built a cybersecurity scanning tool using Java and Python scripts to find potential threats(OWASP TOP 10) from codebase.

PROJECTS

AI Reminder https://github.com/prajyotkcsu/remind-gpt.git

- Built a productivity app to stay focused on primary goals using OpenAI API and Kafka for storing partitioned data.

Restaurant Finder https://github.com/prajyotkcsu/find-near-me.git

- Built an app where users can search restaurants based on their location and food preference using Elasticsearch engine.
- Designed query mechanism using Kibana to search through Elasticsearch indexes.