Akshit Rameshkumar Desai

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EDUCATION

Concordia University, Montreal - M.Sc. in Applied Computer Science (GPA: 3.88/4.3) 09/2022 - 04/2024 Gujarat Technological University - B.E. Computer Engineering (GPA: 9.38/10.0) 08/2017 - 05/2021

TECHNICAL SKILLS

Languages: C, C++, Java, Golang, Python, JavaScript

Databases: MySQL, PostgreSQL, MongoDB, Redis, DynamoDB, YugabyteDB DevOps: Docker, Kubernetes, Kubeflow, Harness, Spinnaker, AWS, GCP Other Tools: Kafka, RabbitMQ, Git, Postman, Selenium, key-cloak

EXPERIENCE

 \bullet Getting started

 $SDE\ Intern$ 05/2023 - 08-2023

- Implemented data pipeline to dump data into S3 Bucket using automated cradle jobs and it's job-profiles. Injected data to DynamoDB using AWS CDK(Typescript) to create automated resources(GlueJobs, DynamoDB etc).
- Created new API views using Datapath (Amazon's Declarative Language) and service APIs using Scala(Coral framework), enabling approximately 15 teams at Amazon to seamlessly integrate with the service.
- Improved observability by adding alarms using internal framework(Ruby) and metrics for new & existing APIs.

Instaview.ai Software Engineer II

Remote, Canada 08/2023 - 05/2024

- Developed backend services with more than 50 APIs from scratch with domain-driven architecture in Go.
- Designed complex workflows connecting IoT devices with the system and integrated AWS IoT components such as things, things shadow, certificates, life-cycle events and other communications through MQTT.
- Engineered a comprehensive wrapper library for internal use, simplifying AMQP for RabbitMQ, AWS, Backblaze, MQTT, middlewares, validators, and push notification clients(i.e., APNS, FCM, and Pushy) across microservices.

Kamivision Software Engineer

Remote, Canada 04/2022 - 05/2023

- Developed and fixed different APIs for core back-end services in Go.
- Programmed CLI tool for AI team to get videos from kinesis video streams for analyzing and training AI models, automating manual efforts of 2 days, and optimized further with go routines.
- Helped AI team to set up kubeflow with Custom RBAC on kubernetes on the local server.
- Revamped Unit-testing and CI pipeline in major back-end services. Educated team with Unit-testing & integration testing, reducing a number of production failures and bugs by 50%.

 $Zopsmart \\ SDE \ I$

Bengaluru, India 06/2021 - 04/2022

- Architected and optimized Golang-based ETL pipelines for **Kroger Co**, **US**, and its subsidiaries, achieving seamless migration, synchronization, and merging of user data; handling daily traffic of 9 million users using kafka and ensuring uninterrupted data flow.
- Introduced & engineered distributed locking mechanism, Data fix Scripts, DB-retry features, resolving data discrepancy errors; Automated Bulk data migration using shell scripts, reducing 8 hours of manual efforts.
- Maintained and set up deployment pipelines on harness from scratch; Enhanced monitoring process by adding Grafana and Dynatrace tools for data visualization.

 $SDE\ Intern$ 02/2021 - 06-2021

 $\bullet\,$ Delivered end-to-end functionalities for internal project.

PROJECTS

Online graph coloring | Javascript, React.js, C++ | 🗘 🗗 👪

• Online graph coloring visualizer, solved by CBIP and first fit Algorithm.

Kubeflow-GNN | Python(PyTorch), Kubeflow, GCP | ♠ ₺

• Trained SAGEConv for predicting link properties in document citation networks. Orchestrated GNN model training as a PyTorchJob within Kubeflow, leveraging Pytorch DDP for distributed training and reduced training time by 40%.

ChuckMate | Python(Django) | 🖸 🚱

 $\bullet\,$ A Web app with roughly 100 monthly active users, feeding new jokes on every click.

ACHIEVEMENTS

• $ACM\ ICPC$ - $Honourable\ Mention$: Secured 477th (top 10%) rank in the online round and 79th in the Kanpur region round of ICPC Asia Kanpur Regionals.