

Akshit Rameshkumar Desai

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EDUCATION

Concordia University <i>Master of Applied Computer Science; CGPA: 3.88/4.30</i>	Montreal, QC, Canada Sep. 2022 – Apr. 2024 (Expected)
Gujarat Technological University <i>Bachelor of Engineering in Information & Technology; CGPA: 9.38/10.00</i>	Ahmedabad, India Aug. 2017 – May 2021

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

Instaview.ai <i>Software Engineer</i>	Remote (Canada) Aug. 2023 – Present
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- Developed backend services having 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.

Amazon <i>Software Development Engineer Intern</i>	Vancouver, BC, Canada May 2023 – Aug. 2023
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- Implemented data pipeline to dump data into S3 Bucket using automated cradle jobs and it's job-profiles. Injected data to DynamoDB u 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 Lpt framework(Ruby) and metrics for new and existing APIs.

Kamivision <i>Software Engineer</i>	Remote (India & Canada) Apr. 2022 – May 2023
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- Developed and fixed different APIs for core back-end services in Go. Enforced pagination and reduced latency for core APIs by 50%.
- 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 <i>Software Engineer</i>	Bangalore, India Jul. 2021 – Apr. 2022
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- Architected and optimized Golang-based ETL pipelines for **kroger.com, 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.

Software Developer Intern	Feb. 2021 – Jun. 2021
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- 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) 🌐 🌐
• 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. 🌐