

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

EXPERIENCE

Amazon <i>Software Development Engineer Intern</i>	Vancouver, BC, Canada May 2023 – Aug. 2023
<ul style="list-style-type: none">Engaged in daily stand-ups, updating on project progress, discussing challenges, and collaborating with senior developers to gather requirements and contribute to design processes.Implemented data pipeline to dump data into S3 Bucket using automated cradle jobs and it's job-profiles. And, 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 Lpt framework (Ruby) and metrics for new and existing APIs.	
Kamivision <i>Software Engineer (Contract)</i>	Remote (India & Canada) Apr. 2022 – May 2023
<ul style="list-style-type: none">Developed and fixed different APIs for core back-end services in Golang. 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 to AI team setting up kubeflow with Custom RBAC on the local server.Revamped Unit-testing and CI pipeline in major back-end services. Educated team with Unit-testing & integration testing, reducing number of production failures and bugs by 50%.	

ZopSmart <i>Software Engineer</i>	Bangalore, India Jul. 2021 – Apr. 2022
<ul style="list-style-type: none">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 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 setup deployment pipelines on harness from scratch; Stimulated monitoring process by adding Grafana and Dynatrace tools for data visualization.	
Software Developer Intern	Feb. 2021 – Jun. 2021
<ul style="list-style-type: none">Led interns team and developed multiple helper project for different services using 3-layer architecture in Golang. Designed architecture, database Schema and REST-APIs for these projects.Gained expertise in various DevOps domains, including Kubernetes, Helm charts, Terraform, and AWS, through comprehensive hands-on experience.	

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.
- Achieved an impressive **training accuracy of 76%** and **testing accuracy of 73%**, while also reducing **training time by 40%**.

Smart Attendance Using Face Recognition | Python(OpenCV, Django), RaspberryPI

- Achieved 89% accuracy for recognizing face by researching different hardware configurations & OpenCV algorithms.
- This project got shortlisted (out of 20 teams) for regional round of Smart Gujarat Hackathon. 

ChuckMate | Python(Django)

- A Web app with roughly 100 monthly active user, feeding new jokes on every click, allowing users to change the name of the main character and share.

ACHIEVEMENTS

Competitive Programming
<ul style="list-style-type: none">• ACM ICPC - Honourable Mention : Secured 477th (top 10%) rank in online round and 79th in Kanpur region round of ICPC Asia Kanpur Regionals. • Codechef(1868 - 4 Star) , Codeforces(specialist-1484) , HackerEarth(1524)