Akshit Rameshkumar Desai

✉ akshit.r.desai@gmail.com | 🌐 akshitdesai.github.io | ○ akshitdesai | 🔗 akshitdesai

EDUCATION

Concordia University   Montreal, Canada
Master of Applied Computer Science   Aug. 2022 – Present
- **Coursework**: Distributed System Design, Programming and Problem Solving, Advanced Programming Practices, Algorithm Design Techniques, Info and web retrieval, Applied Artificial Intelligence

Gujarat Technological University   Ahmedabad, India
Bachelor of Engineering in Information & Technology   Aug. 2017 – May 2021
- **CGPA**: 9.38/10.00
- **Coursework**: Data Structures & Algorithms, Databases, Operating Systems, Web Technologies, Machine Learning, Software Engineering.
- **Leadership and Involvement**: Computer Society of India, CodeChef Campus Chapter

EXPERIENCE

Kamivision   Apr. 2022 – Present
Software Engineer (Part time)   Remote - Montreal, Canada
Software Engineer (Conrtact via - Velotio)   Pune, India
- Developing and optimizing different APIs, fixing bugs, and designing different system flows for core backend services developed in Golang.
- Implemented CLI tool for AI team to get videos from kinesis video streams for analyzing and training AI models which reduced **2 days of manual efforts**. Also Optimized it further with go routines and **reduced time taken by script 80%.**
- Contributed to AI team for helping them set up **kubeflow with Custom RBAC** on the local server.
- **Introduced Unit-testing and CI pipeline** in three Backend services developed in Golang. Conducted sessions on Unit-testing and mocking services, interfaces & DB calls.

ZopSmart   Feb. 2021 – Apr. 2022
Software Engineer (Client - Kroger)   Bangalore, India
- Worked on **ETL pipelines** written in Golang to migrate, sync and merge users' data of **Kroger, US** and it's subsidiaries; handling traffic of around **9 million** users daily.
- Introduced & worked on **locking mechanism, Fix Scripts, DB retry features** which **resolved data discrepancy** errors; Automated Bulk data migration process using **shell scripts** which used to take **8 hours of manual efforts.**
- Implemented **concurrent workers using go channels and wait groups** and **speed up data processing by 80%.**
- **Maintained and setup deployment pipelines on harness from scratch**; Stimulated monitoring process by adding Grafana and Dynatrace tools for data visualization.
- Introduced **different Database key rotation plans** and **Vault open-source** tool to automate the process of secrets rotation to reduce down times.
- On-boarded new joiners and conducted KTs, tech talks; Reviewed & Demoed sprints to the stack-holders.

Software Developer Intern   Bangalore, India
- Worked in interns team and developed back-end for different services using **onion architecture in Golang**; **Designed architecture, database Schemas and Developed REST-APIs** for the project.
- Gained knowledge of DevOps concepts like kubernetes, helm charts and github actions.; Learned Golang, Databases integration, different architectures, SOLID principles, LLD concepts, Mock & Integration testing.

Cerebulb   Jul. 2021 – Dec. 2021
Python Developer Intern   Gandhinagar, India
- Build Rest-APIs, Dashboard, and different services of the **software licensing portal** using **Flask**. Developed script in python using **AES-Encryption** for periodic dynamic licence generation.
- Worked on building a Desktop application usiung **eel** that allows **lossless and continuous transmission of data in industrial machines** between **WITS to OPC over TCP/IP or serial communication**.

SKILLS

Languages & Frameworks : C, C++, Golang(Gin, echo), Python(Django, Flask)
Databases : SQL(MySQL, PostgreSQL), NoSQL(Mongo, Redis, Cassandra)
DevOps : Docker, Kubernetes, Harness, Spinnaker, Github Actions, AWS
Other Tools : Git, Postman, Selenium, Kubeflow, Keycloack

PROJECTS

Codepod - (In progress) | Golang, PostgreSQL, React.js
- A podcast player web-app for all the coding and technology related podcasts with advanced functionalities.
- **Scraping podcasts using RSS feeds using go routines.**
- **Podcast recommendation system** that uses **NLP** for **Named-entity recognition** to tag and make any podcast follow-able by entities.

AMS Using Face Recognition | Python(OpenCV, Django), RaspberryPI
- Smart attendance management system(AMS) that **recognise the face and marks the attendance.**
- Achieved **89% accuracy** for recognizing face **by researching different hardware configuration & Open CV algorithms.**
- Made it cost effective by using low-end hardware with only **40$** including Raspberry PI and USB Cam.
- **This project got shortlisted for Regional round of Smart Gujarat Hackthon-2020.**

Contest Reminder | Python(Django), MySQL, Cron-jobs
- An **Email subscription service** that reminds competitive programming contests hosted on different platforms such as **Codechef, Hacker-earth, HackerRank** etc.
- Fetching contest data using **selenium** from these platforms using cron job.
- **Open-sourced & Mentored this project as a part of Kharagpur Winter of Code(KWoS-Organized by IIT-Kharaggpur)**

ChuckMate | Python(Django)
- **A Web-app that feeds new joke** on every click, allowing user to change the name of main character with their dear once and allow to share with them.; Monthly **1000 visitors** to ChuckMate project.

LinkedIn-scrapper | Python(Beautifulsoup), Selenium
- Web-crawler that scraps the data of top employees of listed companies with related tags (i.e., CEO, HR) using selenium written in Python.

ACHIEVEMENTS

Competitive Programming
- **ACM ICPC - Honourable Mention** : Secured **477th (top 10%)** rank in online round and 79th in Kanpur region round of ICPC Asia Kanpur Regionals.
- **TCS Codevita Season-8** : Ranked **439 (top 1%)** in Round-1 of TCS Codevita coding challenge.
- **Secured 1st rank in College** in Discovery Challenge Organized by Scaler Academy & many on-campus coding competitions.
- Won many programming and technical events on campus & during National level Techfest Imaze'18 and 19.
- Solved more than **600 problems** and participated in more than **70 online contests** on various platforms.
- Ratings : **Codechef**(1868 - 4 Star) , **Codeforces**(specialist-1484) , **HackerEarth**(1524)

Hackathons
- **Smart India Hackthon (2020)** : **1st Runner up** in Hardware Edition honored by Government of Uttarakhand; Worked as Backend Developer(Developed & Deployed Rest APIs using Flask) in the team of 6.
- **Smart Gujarat Hackathon (2019-20)** : Attendance management system using face recognition project got shortlisted for regional round of SGH.