

KUSH CHOUDHARY

Engineer. Innovate. Build.

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EXPERIENCE

Intelligence Engineer - Contract

June 2024 – April 2025

Mercor

Remote, San Francisco

- Developed automated test scripts in **Python** using Docker for a top AI startup; also mentored team members.
 - Led a specialized team of Python engineers as the primary code review lead, ensuring meticulous quality control and adherence to industry best practices on a high-impact, confidential project.
 - **QA** and Client Support for one of the top AI Agent.
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Software Development Engineer

Jan 2022 – Present

Societe Generale GSC

Bangalore, India

- Orchestrated Client Service integration with over 7 internal third-party services using **Spring Boot** in back-end, enhancing service interoperability and efficiency.
 - Engineered a robust system by implementing **ELK Stack** for real-time **monitoring** across 8 back-end applications, ensuring proactive response to performance metrics. Seamlessly integrated **Matomo** for comprehensive user analytics, empowering data-driven decision-making.
 - Transformed Security Operations Management Tool, expanding its utility from GBSU (Department) to GSCI inclusive, by employing **micro front-ends** architecture with **Angular** and **React** to enhance **scalability**, modularity, and user experience.
 - Developed a sophisticated service to monitor **RxJS** subscriptions, reducing memory leaks to zero in the front-end and maximizing performance.
 - Successfully **migrated** a substantial volume of data from legacy applications to the new system, ensuring continuity and efficiency in operations, resulting in streamlined workflows.
 - Architected **fault-tolerant** microservices using **RabbitMQ** messaging, and **Kubernetes** orchestration for scalable and resilient Team Monitoring and Aggregator services.
 - Setup **GitHub Action** workflows to automate various development tasks, streamlining the development process and enhancing productivity.
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Software Development Engineer- Contract

Oct 2021 – June 2022

Trademarkia

Remote, India

- Leveraged **H3** hexagonal grid indexing to meticulously map communities, elevating spatial analysis precision and efficiency.
 - Seamlessly integrated **Mapbox** with React for dynamic visualization of geographic regions, enhancing user engagement and navigational clarity.
 - Employed **Mux** APIs, using **Golang** in back-end, for seamless video transcoding, dynamically optimizing multimedia content delivery for livestreaming and displaying shorts in both mobile and web applications.
 - Integrated **Amazon S3** for scalable video storage, complemented by a pub-sub mechanism using **AWS SNS** for efficient notification and processing when adding videos to S3.
 - Spearheaded the development of **k6** load testing strategies and crafted data processing scripts in **Python**.
 - Integrated **Stripe** payment gateway to facilitate secure and efficient online transactions.
 - Implemented **Sentry** for real-time error monitoring and proactive issue resolution, ensuring high application reliability.
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Software Development Engineer - Intern

Oct 2021 – Dec 2021

Winuall

Bangalore, India

- Built an **OCR** and integrated with Quiz APIs using PyTesseract in **Python**, GoLang and **AWS Lambda** Serverless code enhancing the platform's functionality and user experience.
- Maintained infrastructure and Backend APIs for a Marketplace serving 4000+ tutors and coaching institutes, ensuring high availability and scalability.

- Enhanced database query performance and reliability through the implementation of batch processing in Python and **GoLang**, resulting in optimized data processing efficiency.
- Implemented **caching** with Redis, substantially reducing the load on the database and enhancing overall performance.
- Established **Jenkins** pipelines to orchestrate automatic builds and deployments within **Docker** and **Kubernetes** environments, ensuring seamless continuous integration and delivery workflows.

SKILLS

Python Golang Javascript Java Kubernetes NodeJS Django Angular Flask
 Spring Boot Git AWS WebScraping Serverless Pentesting Docker Selenium

EDUCATION

Bachelor of Technology - Computer Science Engineering
Vellore Institute of Technology, Vellore

June 2018 – June 2022
 CGPA: 8.6

PROJECTS

GitHub Social Collaboration Network

- Utilizes graph structure and **social network analysis** concepts to find important users, user and project recommendations, and more. Powered by Python with SNA at core.

Dark Web Crawler

- Developed a **multi threaded web scraping** solution using **Scrapy** library in Python to collect and store data from dark web sites leveraging pproxy, capturing latency metrics for enhanced performance analysis and optimization.
- Furthermore, this project gained substantial traction on YouTube, standing out as one of the initial guides on coding for dark web scraping by implementing **HTTPS tunneling to SOCKS5** proxy.

Mentimeter Lite

- Crafted an intuitive online poll maker utilizing Node.js, **Web Sockets**, and jQuery, enabling real-time polling experience with a user-friendly interface leveraging **Chart.js** for dynamic visualization.

PWA for Real Time Attendance

- Tracks real-time attendance of community members. Used **SocketIO** in **Flask**.

Flask Docs and Secrets Check

- Generates documentation for Flask projects and checks for the presence of sensitive data in code. Powered by **Regex**.

Bug Bounty Article Feeder

- Real-time site monitoring bot with Discord and Telegram notifications, hosted on **AWS Lambda** with Python at core.

PENTESTING

Bash Injection

- Discovered critical **Bash Injection** vulnerability in Groff Editor and Compute-Monitoring-Bot during internal pentests at DSC-VIT, resulting in environment leak.

API Vulnerabilities

- Uncovered critical API vulnerabilities leading to **account takeover** during external pentest for CodeChef-VIT in CET.
- Identified business logic flaw in Tracxn API, exposing paid data.

ACHIEVEMENTS

- Built a solution to detect fraudulent activities based on user input in YG23 **Hackathon** at SocGen India.
- Delivered informative **sessions** on Micro Frontends and Serverless code, fostering knowledge sharing and empowering team members with cutting-edge technologies.
- Actively participated in college organizations such as the Google Developer Group (GDG), Computer Society of India (CSI), and CodeChef, where I contributed to diverse projects and events as a full stack developer, fostering a vibrant tech community.