

SHRAVAN CHAUDHARY

Software Engineer, Triomics

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ABOUT ME

Adept in engineering backend services with 5 years of industry experience. Passionate about leveraging technology to drive innovation.

SKILLS

Languages: Java, Python

Databases: Postgres, MongoDB, S3, Redis, ElasticSearch, Vector DBs

Web Frameworks: Django, DRF, Flask, FastAPI, SQLAlchemy, Spring Boot

Development tools: Docker, git, Clickup, Jira, AWS, GCP

Expertise: Data Structures and Algorithms, Object Oriented Programming, High-Level Design, Low-Level Design, Microservices, CICD, Backend Development

EDUCATION

Bachelor of Technology

Computer Engineering, 9.09/10

Indus University (Jun 2015 - Mar 2019)

Higher Secondary

PCM Computer Science, 80.2%

Kendriya Vidyalaya (2013 - 2015)

EXPERIENCE

Software Engineer - Triomics Healthcare Pvt Ltd (Jan 2022 - Present)

Created and maintained a robust EDC (Electronic Data Capture) form management system, optimizing field validations and interdependencies, which enhanced the clinical trial data integrity.

Laid the base foundation for external EDC integration into our ecosystem, establishing a path for subsequent integrations with industry-leading EDCs namely Medidata, Redcap, and Medrio.

Engaged directly in a Clinical Trial (Ultrahuman) as a participant, to gain firsthand insights into user experience.

Revamped the user management framework, which simplified the system's architecture for user base growth.

Implemented AWS Cognito and Casbin for sophisticated Authentication (AuthN) and Authorization (AuthZ) processes, and architected a microservices gateway to unify system interactions.

Established and managed continuous deployment pipelines, to ensure seamless code integration and delivery across multiple environments

Software Development Engineer - Innovaccer (Dec 2020 -Jan 2022)

Contributed in the development and maintainance of their core product, Patient 360.

Effectively gathered product requirements and led the development of key features, keeping out team in top performers.

Managed infrastructure and integration challenges within the team, to ensure stable and efficient client deployments.

Designed and developed deployment pipeline for over a hundred microservices, with a small team created from all the teams. Majorly worked on feature environment provisioning.

Software Engineer - Wingify VWO (May 2019 -Dec 2020)

Created and maintained Open Source Python SDK for VWO FullStack, writing critical features like segmentation, white-listing, and mutual exclusion, which reduced the latency of our services to 20 ms. <https://github.com/wingify/vwo-python-sdk>

Developed Nimbus, a dockerized application designed to manage storage connectivity and event processing of the SDK.

Authored a lightweight, Maintainance library in python to streamline microservice deployment and monitoring.

Debugged and fixed a legacy code, achieving 20x performance increase in the application by optimizing Redis usage and resolving memory leaks.

PROJECTS

Developed an RAG chat application incorporating LLMs and embedding models for precise searches for code documentations, akin to Github Copilot X. Features include user management, conversation capabilities, and message storage in PostgreSQL, feeding relevant content to the LLM model using sentence_transformers.

Created GPT AskReddit with 100 DAU, leveraging Google search and Reddit APIs to aggregate top posts, descriptions, comments, and replies from Reddit based on user queries. Utilized OpenAI's API for a free version, allowing access to those without a ChatGPT Plus subscription.

Engineered a short movie clip generator that crafts a narrative in sections, converts text to images, and sequentially to video, enhancing scene duration through frame repetition. Implemented on GCP's spot instances to optimize inference costs.