

Dev Masrani

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Education

B.S. in Computer Science, *Minor in Construction Management*

California Polytechnic State University, San Luis Obispo CA

Professional Experience

Software Development Engineer – Last Mile Under The Roof (UTR) Tech

Jul 2024–Present

Amazon

- Developed a ReactJS dashboard to visualize the lifecycle of events in a driver safety service, enabling non-technical users to self-identify service issues, and reducing support tickets by 80%
- Implemented a service agnostic API to execute pre-set custom CloudWatch queries, normalize response data, and output data to user, eliminating the need for non-developer access to production services
- Onboarded a new business segment to Prime delivery visibility service, building data normalizers, and onboarding new data sources into existing technology stack, increasing station efficiency by 15%

Jr. Software Development Engineer – Last Mile Routes Forecasting

Jan 2023–June 2024

Amazon

- Enabled real-time forecasting updates for Last Mile delivery route planners, resulting in a 20% cost reduction in redundant aggregation executions and a 95% decrease in data latency
- Developed an event-based execution feature for data aggregation service, and migrated service from schedule based aggregation to event driven aggregations supporting S3, SQS, SNS, and DynamoDB messages
- Led the full lifecycle of feature development from design, implementation, documentation, onboarding, and on-call support, increased org level adoption for data aggregation service
- Collaborated with cross-functional Data Science and Software Engineering teams to onboard new and existing data sources such as S3 buckets and org level data lakes, expanding service accessibility

Software Engineering Intern

June 2022–September 2022

Viasat

- Developed a CI/CD DevOps system using Kubernetes, GitHub Actions, Artifactory, Nginx, Ansible, and ArgoCD.
- Utilized GitHub Actions to autonomously build docker containers and integration test upon pushing to git
- Employed Nginx to load balance web requests on the Kubernetes cluster allowing users to have uninterrupted service in the event of high load or node downtime
- Scaled the cluster through Ansible and Bash scripts to automatically spawn/kill Openstack VM's, configure new nodes, and onboard them to the cluster, resulting in automated scaling based on load and node health

Project Experience

StudyGPT | Langchain, Pinecone, OpenAI, Python, React.js, Supabase, Render

- Acted as Engineering Lead to develop a study aid that allows users to seamlessly upload slides, textbooks, and notes into GPT4, expanding its capabilities to permanently index user uploaded information
- Added functionality for ChatGPT to cite sources, providing file references and page numbers for user queries
- Implemented a cross-platform upload application for Windows and MacOS using Langchain to convert files to vectors and upload them to Pinecone, streamlining the process of data storage and retrieval for any LLM
- Developed a retrieval API utilizing Pinecone and GPT4, enabling seamless data querying from front-end website

Playlistifyer | Python, Flask, Heroku, Vercel

- Implemented AI Spotify playlist generator and analyser in Python and Flask with 100+ launch users
- Integrated Spotify OAuth and utilized cookies to privately store user data and encrypted login tokens
- Scaled backend system to support 130 concurrent users and generated 1500+ playlists
- <http://playlistifyer.pythonanywhere.com>

Skills

- **Technical Skills:** Java, Python, Kotlin, Typescript, SQL, HTML, ReactJS
- **Tools:** Git, Linux, Docker, AWS(DynamoDB, Lambda, EC2), Ansible, Kubernetes, Bash