Dev Masrani

(408)600-5299 | dsmasrani@gmail.com | linkedin.com/in/dev-masrani/ | github.com/dsmasrani

EXPERIENCE

Software Development Engineer Seattle, WA

Amazon Web Services| *React.JS, Typescript, Node.js, Java, Python, REST* July 2024 – Present

- Owned design and delivery of a GenAI-powered "Evidence Insights" feature for AWS Audit Manager, translating raw API evidence into human-readable controls (NIST, SOC2, HIPAA, ISO, PCI), cutting auditor review time ~50% and standardizing interpretations across customers.
- Re-architected a distributed compliance evidence service to scale from 12 to 39+ AWS regions, introducing partition-aware routing and region isolation to support FedRAMP High, driving customer adoption due to expanded service availability.
- Defined and drove org-wide Full Continuous Deployment standards, aligning stakeholders, and migrating 21 production pipelines to Full CD, saving ~1 SDE month per year in manual deployment efforts.
- Built and owned a React-based operational dashboard visualizing the lifecycle of incoming events in a Last Mile Amazon driver safety service, enabling non-technical users to self-diagnose dependency issues and reducing support tickets by 80%.
- Onboarded a new Delivery business segment into a delivery visibility platform, building data normalizers and integrating new data sources to expose live operational metrics and enabling time clock services, improving XL station platform usage by 50%.

Junior Software Development Engineer San Luis Obispo, CA

Amazon.com | *Python, Java, Lambda, SQS* January 2023 – July 2024

- Migrated a batch-based SQL aggregation service to an event-driven architecture using S3, SQS, SNS, and DynamoDB notifications, enabling real-time data processing, reducing compute costs by 20%, and cutting latency by 95%.
- Owned end-to-end feature delivery (design, implementation, documentation, and on-call support) for event-based data aggregation, driving adoption of the feature across 10+ teams, replacing legacy time-based batch jobs.
- Partnered with Data Science and Platform teams to onboard new S3 and org-wide data lakes, expanding ingestion coverage and increasing feature accessibility to support 90% of existing use cases.

Software Development Engineering Intern San Francisco, CA

Viasat Inc. | *ArgoCD, Artifactory, Ansible, GitHub Actions, Java, Kubernetes, Nginx* Sep 2022 – Dec 2022

- Built and deployed a Kubernetes-based CI/CD pipeline using GitHub Actions, ArgoCD, Artifactory, Nginx, and Ansible.
- Automated Docker container builds, artifact storage, and integration testing on code push using GitHub Actions.
- Implemented Nginx load balancing to maintain service availability during node failures and traffic spikes.
- Automated Kubernetes cluster scaling using Ansible and Bash, provisioning OpenStack VMs based on traffic and node health.

Tech Lead San Luis Obispo, CA

Cal Poly College of Science and Mathematics Web Team |*Trello, React.JS, Typescript* August 2021 – June 2024

- Led maintenance and evolution of 23 production subdomains serving 10,000+ users, driving new user flows and improving accessibility compliance.
- Secured 300% increase in intern funding by presenting a scope expansion plan to senior leadership; hired and led a team of 3 interns delivering a website theme migration, analytics dashboards, and accessibility compliance improvements.
- Improved site engagement and discoverability, reducing bounce rate by 30% and increasing average page rank by 10%.

EDUCATION

California Polytechnic State University – San Luis Obispo San Luis Obispo, CA

Bachelor of Science, Computer Science, Cum Laude

Minor in Construction Management

PROJECTS

StudyGPT | *Langchain, Pinecone, ChatGPT-4.1, OpenAI API, Python, React.js, Supabase, Render*, REST API

- Built an LLM-powered study assistant enabling users to query textbooks, slides, and notes through a customized retrieval agent, reducing manual search time and enabling accurate, verifiable, and context-specific answers.
- Added functionality for Agent to cite sources, providing file references and page numbers for user queries.
- Implemented a MacOS/Windows application utilizing Langchain to vectorize and upload data into a Pinecone vector database
- Built a retrieval API and login/query website utilizing Pinecone and OpenAI API to enable querying from front-end website.

Playlistifyer | *Python, Flask, Heroku, Vercel*

- Implemented Spotify playlist generator and Analyzer in Python and Flask with 100+ launch users.
- Integrated Spotify OAuth and utilized cookies to locally store user data and encrypted login tokens without server-side storage.
- Scaled backend infrastructure to support 130 concurrent users, generating 1,500+ playlists on launch day without service degradation.

TECHNICAL SKILLS

Libraries/Frameworks: React, Node.js, AWS (Lambda, DynamoDB, IAM, Step Functions, Glue, SQS/SNS, Bedrock)
System Concepts: Event-driven architectures, CI/CD, Database Sharding, Fault Tolerance