

Dev Masrani

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Education

B.S. in Computer Science

Est. Grad: June 2024

California Polytechnic State University, San Luis Obispo CA

Honors: Winner of Cisco@Slohacks 2020 (**GPA: 3.45/4.0**)

Relevant Coursework: CSC 101 – Fundamentals of Computer Science, CSC 202 – Data Structures, CSC 203 – Object-Oriented Programming, CSC 225 – Introduction to Computer Organization. CPE 357 – Systems Programming in C

Professional Experience

Jr. Developer (Apprentice L4 SDE)

Jan 2023–Present

Amazon, San Luis Obispo, CA

- Working with the Last-Mile Delivery team to maintain and optimize Machine-Learning Route Planning for Amazon delivery drivers globally.
- Developing Pagination support in Python utilizing AWS Lambda and DynamoDB for internal Amazon APIs.
- Modifying the Last Mile ML System to reduce user inputs, optimizing internal tooling for 1,000+ Route Planners.
- Maintaining and running prod, beta, and alpha AWS SageMaker runs for internal stakeholders.

Software Engineering Intern

June 2022–September 2022

Viasat, Carlsbad, CA

- Collaborated with a team to develop a CI/CD DevOps-style system using Kubernetes, GitHub Actions, Artifactory, Nginx, Ansible, and ArgoCD.
- Utilized GitHub Actions to autonomously build docker containers upon git push and integration testing.
- Employed Nginx to effectively load balance the Kubernetes cluster allowing users to have uninterrupted service in the event of high load or node downtime.
- Managed the cluster through Ansible and Bash scripts to automatically spawn or remove Openstack VM's, and configure them for the cluster by monitoring traffic-based load and node health.
- Established a Trade Study between CentOS, Ubuntu, K3OS, RancherOS, and TalosOS to identify optimal Kubernetes Operating Systems and Kubernetes distributions for a given use case.

Project Manager

July 2021–Present

College of Science and Mathematics - Cal Poly, San Luis Obispo, CA

- Consult with the University to develop brand new web templates and executing a website redesign.
- Support the creation and modification of existing webpages, allowing staff to update their subdomain.
- Manage a team of 3 to overview code being pushed to 23 subdomains, 10,000+ users utilize yearly.
- Optimize SEO through redesigned information architecture, newly coded web page templates, content management, and a mega menu for better usability.

Project Experience

Uber Clone | React Native, React.js, Tailwind CSS, Redux

August 2022

- Developed a fully functional Uber Clone that can cross compile in iOS and Android with functional route mapping, auto-zooming, and price calculation.
- Utilized Google Maps Travel API to have accurate price calculation, simulated surge pricing, and a wide variety of Uber ride types with address autosuggestions and autofill.
- Implemented scalar positioning to render elements correctly regardless of device resolution or flavor.

Playlistifyer | Python, Flask, Heroku

March 2021

- Implemented AI Spotify playlist generator and analyser using python and flask with 100+ active users
- Integrated Spotify OAuth and browser cookie cache's to privately store user data encrypted and locally
- Server supported 130 concurrent users and generated 750+ playlists on launch day
- <http://playlistifyer.pythonanywhere.com>

Masrani.tech | HTML, CSS, JavaScript, php

December 2021

- Developed 4 portfolio websites utilizing HTML, CSS, and Bootstrap to showcase web development abilities.
- Consistently maintain the website to meet my current needs with 400+ monthly visitors and frequent updates.

Skills

- **Technical Skills:** Java, Python, Assembly, C, HTML, CSS, Bootstrap
- **Interests:** Hiking, Biking, Construction, Video Games, Dancing, Eagle Scout, Alpha Kappa Psi