

Amir Mairaj

San Diego, CA | (858) 353-1906 | amairaj@uci.edu | [linkedin.com/in/amir-mairaj/](https://www.linkedin.com/in/amir-mairaj/) |
<https://github.com/amiramadmairaj> | bit.ly/amirmairaj

Education

Bachelor of Science in Computer Science w/ Specialization in Information Systems

University of California Irvine - GPA: 3.716, Dean's Honor List

Expected Graduation: December 2023

Experience/Work History

Backend Software Engineer Intern, Odyssey | Remote

Feb 2023 - Present

- Developed a full-stack **React** web application on **AWS Amplify**, incorporating robust sign-in/out authentication.
- Utilized AWS Lambda to create a Lambda function that incorporates OpenAI API calls, and manage data retrieval and storage through a NoSQL database (**AWS DynamoDB**)
- Collaborate with project managers through biweekly standups, leveraging **agile** software development methodologies to ensure project milestones are achieved on time and within scope.

Office of Information Technology Consultant, UC Irvine | Irvine, CA

Dec 2021 - Present

- Achieved a 75% reduction in escalations to higher-level technicians by efficiently handling complex user requests involving software such as Cisco Anyconnect VPN, Duo Multi-factor Authentication, Software Licensing Support (all university supported software), Adobe Suites, and Microsoft Office 365
- Utilized ServiceNow for support tracking and analysis, directly contributing to the enhancement of AI chatbot for improved self-help systems.

Projects

Web Scraper <https://github.com/amiramadmairaj/SearchEngine>

- Designed a **Python**-based web scraper for UC Irvine's ICS subdomains.
- Implemented an adaptable inverted index using hash maps to optimize search time.
- Employed search term stemming, TF-IDF score calculation, and SimHash for enhanced search results.
- Created a user-friendly WebGUI using **Flask**, **HTML**, and **CSS** to interact with the search engine.

Personal Website Portfolio <https://bit.ly/amirmairaj>

- Developed a personal website and portfolio using **HTML**, **CSS**, and **Bootstrap**, hosted on **GitHub Pages**.

Slumber <https://github.com/amiramadmairaj/Slumber>

- Co-developed an iOS wellness application using Swift, integrating Apple Watch and HealthKit.
- Implemented biometric data collection for real-time monitoring of vital health metrics.
- Utilized machine learning models (Core ML) to provide personalized recommendations for improved sleep and exercise habits.

Machine Learning Classification Analysis <http://bit.ly/MNSTStudyAmirMairaj>

- Tuned hyper-parameters for machine learning classifiers (KNN, Logistic Regression, Neural Network, and Random Forest) using **sci-kit-learn** for enhanced performance on the Fashion-MNIST dataset.
- Co-authored a research paper on classification methods for the Fashion-MNIST dataset.

Leadership & Affiliation

CodePath - Intro to Cyber Security | Community Member | Remote

Sept 2023 - Current

UC Irvine Google Developer Student Club | Co-President | Irvine, CA

Aug 2022 - Aug 2023

Skills

Languages: Python, C++, Java, Swift, SQLite, R

Tools: Windows, Linux, MacOS, AWS (DynamoDB, Lambda, Amplify, EC2, API Gateway), MySQL, Tableau, Git, GitHub, VSCode, Eclipse, PyCharm, CLion, Jupyter Notebook, ML Libraries (pandas, NumPy, matplotlib, seaborn, sci-kit-learn)

