Amir Mairaj

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Education

University of California, Irvine   *Expected: December 2023*

Bachelor of Science in Computer Science, Specialization in Information Systems

Overall GPA: 3.67/4.0, Dean's Honor List (2 quarters)

Skills

Programming Languages: Python, C++, Java, Swift

Databases: SQL, SQLite, AWS DynamoDB

Tools and Frameworks: AWS Lambda, AWS Amplify, Jupyter Notebook, Google Colab, Git, GitHub

Machine Learning Libraries: pandas, NumPy, matplotlib, seaborn, sci-kit-learn

Experience

Backend Software Engineer Intern, Odyssey   *February 2023 - Current (Remote)*

- Developed a full-stack React web application using AWS Amplify, incorporating sign-in/sign-out authentication and CI/CD implementation.
- Leveraged AWS Lambda for executing OpenAI API calls and managed data retrieval and storage through DynamoDB.
- Designed efficient DynamoDB tables to store and manage user data, ensuring seamless access to past itineraries and preferences.
- Collaborated in agile software development methodologies, meeting project milestones on time and within scope.

Office of Information Technology Consultant, UC Irvine   *December 2021 - Current (Remote)*

- Efficiently handled complex user requests, improving issue resolution efficiency by analyzing diagnostic information.
- Reduced escalations to higher-level technical experts by 25% through meticulous problem characterization and collaboration with OIT units.
- Provided ad-hoc training to empower users in navigating and utilizing OIT applications effectively.
- Utilized ServiceNow for comprehensive support activity tracking and data-driven analysis.
- Contributed to enhancing client self-help systems, resulting in a significant decrease in repetitive common questions.
- Assisted with administrative tasks, demonstrating adaptability and a strong work ethic.

Co-Lead, Google Student Developer Club   *August 2022 - Current*

- Collaborated with the GDSC team to set goals, plan activities, and establish a clear vision for the club as well as delegated tasks and responsibilities, ensuring a well-coordinated and efficient workflow.
- Fostered a positive and inclusive team environment, promoting collaboration and personal growth.
- Managed event logistics, including venue booking, equipment setup, and participant registrations.
- Facilitated knowledge-sharing and mentorship opportunities within the GDSC community.
- Communicated regularly with the team, providing updates on progress and challenges.

Projects

Slumber

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

ML Classification Analysis using Fashion-MNIST dataset

- Developed and implemented machine learning classifiers (K-nearest-neighbor, Logistic Regression, Neural Network, Random Forest) using sci-kit-learn.
- Tuned classifiers hyperparameters for enhanced classifier performance on the Fashion-MNIST dataset
- Evaluated and compared classifier performance using various metrics and visualization techniques.