Amir Mairaj

Active Secret Security Clearance

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Professional Experience

Peraton

August 2024 - Present

Associate Software Engineer, Santa Clara, CA

- Engineered mission-critical software features for Tomahawk Missile Mission Planning Systems, leveraging C++/C# to deliver versatile land attack and maritime missile controls.
- Optimized and debugged large legacy code-base
- Modernizing legacy systems by transitioning to a containerized microservices architecture, utilizing the .NET framework, RabbitMQ, OpenAPI, PostgreSQL, and Swagger to enhance scalability and maintainability.
- Conducted **code reviews** weekly and participated in daily **standups** to ensure code quality and maintain alignment with team goals.
- Delivered over 90% of planned features within sprint timelines, contributing to sprint planning, reviews, and retrospectives in a SAFe Agile environment.

NAVAIR (Weapons Division)

March 2024 - August 2024

Computer Scientist, Ridgecrest, CA

- Developed full-stack web applications used by Boeing F/A-18 and EA-18G flight crew.
- Translated design team mockups into functional and responsive user interfaces using **TypeScript/Vue.js**, **HTML5**, and **CSS**, ensuring pixel-perfect implementation and a seamless user experience and workflow.
- Developed C# APIs to retrieve and process data from Microsoft SQL Server, delivering structured responses to the frontend for seamless data visualization and user interaction.
- Optimized Microsoft SQL Server database queries using stored procedures, reducing execution times by 10-30% and ensuring reliable daily processing of 100+ transactions.

UC Irvine Office of Information Technology

January 2022 - December 2023

Help Desk Consultant, Irvine, CA

• Resolved 75% of complex technical issues without escalation, managing user requests effectively.

Odyssey Backend Software Engineer Intern, Irvine, CA February 2023 - May 2023

- Developed and maintained backend services for an AI-powered trip planning web application, leveraging AWS Amplify, AWS Lambda, and AWS DynamoDB to ensure scalability and reliability.
- Integrated backend functionality with a **React** frontend to create a user dashboard.
- Collaborated closely with project managers to deliver features on schedule and ensure alignment with business requirements and user needs.

Education

University of California, Irvine

August 2019 - December 2023

B.S. in Computer Science — GPA: 3.7 – Dean's Honor List

Technical Skills

Certifications: ScaledAgile - SAFe 6 Agilist Certification (2024)

Languages: C/C++, C#, Python, Java, TypeScript/JavaScript (Vue.js), HTML, CSS, SQL/TSQL

Cloud & Frameworks: AWS (DynamoDB, Lambda, Amplify, EC2, API Gateway)

Tools: Git, GitHub, Bash, SQL Server Management Studio, Visual Studio, Eclipse, CLion, PyCharm, IntelliJ IDEA

Technical Projects

Command Line Shell

Implemented a command-line shell in C with job control and signal handling.

Memory Simulator

Built a virtual memory system simulation with FIFO and LRU page replacement algorithms in C.

Web Scraper and Search Engine

Created a **Python**-based web scraper with GUI, implementing **TF-IDF** scoring and **SimHash** for optimized search results.