Mikayel Sughyan

msughyan@gmail.com mikayelsughyan.info (818) 634-9196

EDUCATION

University of California, San Diego   San Diego, CA June 2023
Mathematics-Computer Science; Bachelor of Science

EXPERIENCE

Manufacturing Engineer Intern
PCC Aerostructures
- Developed and implemented shell and VBA scripts to automate reporting processes, significantly reducing manual effort for program managers and enhancing report accuracy and efficiency.
- Engineered and programmed a Yaskawa Fabrication robot with 60 unique programs for various part numbers, doubling production capabilities and streamlining the hole drilling process.
- Achieved a 15% reduction in drilling time through strategic optimizations in robot programming, contributing to increased operational efficiency and throughput in manufacturing processes.

SayIt Assistant
Team Project
- Developed a desktop application in Java utilizing OpenAI's Whisper and GPT API, integrating voice commands for question-answering functionality and Java Swing for the user interface.
- Implemented prompt history storage using MongoDB and incorporated voice commands for deleting past prompts, enhancing the user experience and maintaining data integrity.
- Utilized design patterns such as builder and MVP to ensure a modular and scalable architecture, promoting code reusability and maintainability. Additionally, integrated email functionality for creating and sending emails using voice commands.

Chess Engine Program
Personal Project
- Developed and maintained a chess engine using the C programming language and the Minimax algorithm.
- Improved the engine's performance by implementing Alpha-Beta pruning.
- Implemented UCI and Winboard protocol to connect to chess GUI's

Nashville Housing SQL Data Cleaning
Personal Project
- Enhanced data quality by cleaning and transforming housing datasets using SQL queries.
- Utilized SQL for data manipulation, including joins and handling null values, to maintain database integrity.
- Resolved data inconsistencies in a housing dataset, ensuring accuracy and supporting property analysis.

SKILLS

Technical

Object-Oriented C++: 4+ years	Python: 2+ years	REST API
Java: 4+ years	R: 1+years	Git/Github/Github CI/CD
C: 4+ years	Julia: 1+ years	HTML, CSS, Apache
Haskell: 1+ years	Gradle/JUnit	C#: 1+ years
MongoDB, SQL, NoSQL	Agile Software process	.NET Framework

Professional

Self-Motivated
Strong communication skills
Excellent customer service and interpersonal skills
Able to learn quickly and work in team dynamic