Dax McPartland

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Skills and Technologies

- C++
- C#
- Java
- JavaScript
- Python
- HTML/CSS

- SOLID Principles
- DevSecOps
- Agile
- REST APis
- Linux
- React

Work Experience

Software Engineer Intern | BAE Systems | May 2023 - August 2023.

- Collaborated closely with engineers on the GBSD program to develop an interactive web application tailored for proprietary data consumption.
- Contributed to the front end of the application using React, Node.js, and Express.js.
- Utilized REST APIs to efficiently retrieve and integrate data with backend services.
- Created compelling visualizations for data analysis using Python and Plotly.
- Implemented rigorous testing protocols, including End-to-end tests using Cypress and unit tests with Jest, ensuring the reliability and robustness of the application.
- Current holder of Secret Security Clearance

Technical Projects

SignLearner | June 2023 - August 2023

Developed SignLearner, an interactive mobile app using React Native, to assist users in learning sign language. Implemented AI-powered image recognition using YOLOv5, enabling users to receive real-time feedback on their sign language accuracy through the app's camera feature. Utilized PHPMyAdmin to design and maintain the database, storing user progress, and enabling personalized learning experiences. Tools Used: React Native, Python Flask, JavaScript, PHPMyAdmin

Snake Game | November 2022 - Janurary 2023

Created an application that allows users to play snake over the internet together. A fully functional client and server were created. Tools Used: C#, Microsoft Visual Studio, .NET MAUI

Education

Bachelor of Science | University of Utah | August 2021 – May 2025

- Major: Computer Science
- Minor: Mathematics
- GPA: 3.87
- Awards: Recipient of The John and Marcia Price College of Engineering Scholarship for Outstanding Student in Computer Science

Extracurricular Activities: Officer of Competitive Coding Club, Software Development Club

Related Coursework: Computer Vision, Algorithms and Data Structures, Object Orientated Programming, Data Analysis