Dax McPartland

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Skills and Technologies

- C++
- C#
- Java
- JavaScript
- Python
- HTML/CSS
- React
- Flask
- SOLID Principles
- DevSecOps
- Agile
- REST APis
- Linux

Work Experience

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

Worked on the GBSD program collaborating closely with engineers to build an interactive web application tailored for proprietary data consumption. Worked with React, Node.js, and Express.js while contributing to the front end of application. Utilized REST APIs to efficiently retrieve and integrate data with backend services. Used Python and Plotly to create compelling visualizations for insightful data analysis. Implemented rigorous testing protocols, including End-to-end tests using Cypress and unit tests with jest, to guarantee 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: 3.86
- 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