Aiden Seo

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Relevant Links: LinkedIn | GitHub
Programming Languages: C++, C#, Python, Java, JavaScript/HTML/CSS, PostgreSQL, Swift, MATLAB, VHDL
Frameworks: ASP .NET Core 7.0, Bootstrap, Flask, TensorFlow
Technologies: Docker, Git, Linux, Jira, Eclipse, IntelliJ, Visual Studio Code, Visual Studio 2022, VMWare

Education

University of Pittsburgh – Pittsburgh, Pennsylvania — **April 2024**
Bachelors of Science – Computer Engineering
Overall GPA: 3.55 / 4.0
In-major GPA: 3.65 / 4.0

Experience

Microsoft — Jan '23 – Present
Industry Project Fellow
- As part of Microsoft's project, developed a pytest plugin that facilitates running tests on docker containers and Kubernetes pods as a team
- Held weekly meetings with engineers from Microsoft and professors from University of Pittsburgh to discuss the progress of the project

Infor — May '23 – Aug. '23
Software Development Intern
- Created a database inspector tool using Java and SQL queries to provide faster access to the SQL server from the web
- Optimized the methods used to access certain sections of the database, leading to a 24% decrease in processing time
- Developed a SQL query, servlet, and UI for a feature that will be newly added to the customer interface

WEX — Sept. '22 – May '23
Software Engineer Intern
- Utilized Gherkin and Python to create automated test cases for both frontend UI and backend API of various services
- Created test cases for the REST API and ensured validity to resolve possible code flaws
- Practiced agile technique and actively participated in the daily standups to reduce technical debt

Alzheimer Disease Research Center — Feb. '23 – May '23
Research Assistant
- Used decoding algorithms with Python, Jupyter Notebook, and TensorFlow to measure the movement and position of eyes based on the data collected from the electrical signals of the brain
- Created efficiency table by giving different numbers of nodes to the decoder to measure their performances
- Worked with graduate students from CMU to help them to set the development environment and discuss the progress of the research

University of Pittsburgh Swanson School of Engineering — May '22 – Oct. '22
Research Assistant
- Utilized OpenMV, Python, and TensorFlow to create an object detector that can be deployed to low-powered micro-circuit devices with a camera
- Tested inductive charging technique on microcircuits to wirelessly supply power

Projects

Blog Web Application | C#, ASP .NET Core 7.0, Microsoft SQL
- A blog web application with different access levels for users and different permissions for admins and super admin
- Like a real blog system, the application allows the user to add posts, edit existing posts, search for a specific post with tags, add comments, and edit the existing user account by accessing the Microsoft SQL database.

32-bit Pipelined CPU | VHDL, TCL, C
- A simplified CPU that can run 21 basic MIPS assembly commands
- Follows a real-life CPU structure consisting of ALU, Register, Memory Unit, and Control Unit with five stages of simplified pipeline structure based on internal clock bits