Aiden Seo

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EDUCATION

University of Pittsburgh – Pittsburgh, Pennsylvania
Bachelors of Science – Computer Engineering

Expected April 2024
Overall GPA: 3.46 / 4.0
In-major GPA: 3.60 / 4.0

EXPERIENCE

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

Software Engineer Intern   Sept. '22 – May '23
WEX INC.
- 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, actively participated in development cycle and daily standups
- Practiced agile technique to reduce technical debt, improve customer satisfaction and deliver a higher quality product

Research Assistant   Feb. '23 – May '23
Alzheimer Disease Research Center
- Used decoding algorithms with machine learning technique to measure the movement and position of eyes using data collected from the electrical signals of the brain with Python, Jupyter Notebook, and TensorFlow
- Improved the machine learning model to accurately capture brain activity and the eye movement
- Created efficiency table by using different number of nodes giving to decoder, measuring their performances

Research Assistant   May '22 – Oct. '22
University of Pittsburgh Swanson School of Engineering
- Applied OpenMV hardware, Python, and TensorFlow to create an object detector that can be deployed to low-powered micro-circuit devices with camera attached
- Aimed to run a simple machine learning KNN model under the most extreme conditions with insufficient energy
- Tested wireless charging technique to provide current to the device and continuously run the object detector

PROJECTS

Semiconductor Wafer Coating Simulation | C#
- A simulation that creates wafers using a simplified real-life UV resin coating process
- Composed of a wafer line panel that creates wafers using resources and a factory panel that remotely control the wafer line

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 superadmin
- Like a real blog system, the application supports adding posts, editing existing posts, searching specific posts with tags, adding comments, and editing the existing user account by accessing Microsoft SQL database.

SKILLS

- **Language:** C, C++, C#, Python, Java, JavaScript/HTML/CSS, PostgreSQL, MATLAB, VHDL
- **Frameworks and Libraries:** ASP .NET Core 7.0, Bootstrap
- **Tools:** Docker, Git, Linux, Jira, CI/CD, Eclipse, IntelliJ, Visual Studio Code, Visual Studio 2022, VMWare