Aiden Seo

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EDUCATION

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

Expected April 2024
Overall GPA: 3.50 / 4.0
In-major GPA: 3.62 / 4.0

EXPERIENCE

Software Developer Intern May '23 – Aug. '23
Infor
- 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

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 the 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 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

Undergraduate Teaching Assistant Jan. '23 – Apr. '23
University of Pittsburgh
- Worked for C++ Embedded Processors & Interfacing course, teaching C++ and Assembly to undergraduate students
- Resolved various software/hardware issues within the lab and wrote documentation for future reference

Research Assistant May '22 – Oct. '22
University of Pittsburgh Swanson School of Engineering
- 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 continuously supply power wirelessly

PROJECTS

32bit Pipelined CPU | VHDL, Tcl
- A simplified CPU that can run 21 MIPS assembly commands
- Follow 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

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.

SKILLS

- **Language:** 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