Kai A. Hoenshell

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EDUCATION

University of Cincinnati

Expected Graduation: May 2025

B.S. - Computer Science, Turner Scholar, University Honors Scholar, Dean's List

Cumulative GPA: 3.50/4.00

EXPERIENCE

Software Development Intern, Siemens PLM Software, Milford, Ohio

January 2024 - August 2024

- Ported Teamcenter Visualization Convert and Print Application (VVCP) from TCL to C++
- Worked with Windows Print API to create graphics software that prints file to Windows & Linux in C++
- Wrote automated tests to validate large scale software functionality in the Cucumber Framework

Software Development Intern, Siemens PLM Software, Milford, Ohio

May 2023 - August 2023

- Developed AWS Lambda functions to embed JavaScript calls in an React web framework
- Managed client and server-side tasks through VM administration and oversaw software releases
- Developed REST API in **Docker** container in **Python Flask** using **Postman** to handle up to 500 requests

Engineering Education 1120 Undergraduate Teacher Assistant, University of Cincinnati January 2023 - April 2023

- Tutored students on the **fundamentals of engineering**, programming, problem solving, and algorithm design
- Created and graded weekly homeworks, quizzes, and exams given to students (20hr/wk)

Software Engineering Co-op Dryer, GE Appliances, Louisville, Kentucky

May 2022 - August 2022

- Cooperated with peers to develop a the **patent** Scent Buddy a dryer that deploys scent through cartridges
- Developed automated Test Driven Development testing through NodeJS and Javascript for embedded software
- Optimized Estar Algorithm for a dryer to have more control over heat relays using Lua, increasing efficiency from the former algorithm by 30%

Software Engineering Co-op Refrigeration, GE Appliances, Louisville, Kentucky

August 2021 - December 2021

- Implemented, designed, reviewed, and tested embedded software using Object Oriented C/C++ and Lua
- Tested and debugged system software for appliances using loadboxes and simulations
- Collaborated with a large team environment based locally and in South Korea using the **Agile Scrum** framework

Darwin T. Turner Scholarship Program, Ethnic Programs & Services, Cincinnati, OH

August 2020 - Present

- Awarded full tuition for diversity engagement, community service, and academic success to embody the cornerstones of Turner Program throughout the community: scholarship, service, and success
- Complete over 30 hours of community service annually throughout the Cincinnati community and beyond

PROJECTS

Balanced Brief | Angular, Python, Cohere, Odrant

November 2023. MakeUC 2023

- Created a website in the Angular framework that scrapes the internet for related articles using BS4 in Python then parsed them into embedded vectors that become stored into the cloud database **Odrant**
- Utilized the Cohere LLM to summarize the articles and identify bias in articles based off of the vectors in Qdrant

Event-Driven Socket Server | Linux, C, Socket Programming

January 2023

- Devised a TCP server with Linux sockets API to communicate with a remote client running multiple connections
- Process delimited integer from a client, handling multiple file descriptors with FD.SET and sys/select.h to prevent head-of-line blocking from simultaneous requests.

Greenshot | Android Studio, Google Cloud, Python, Tensorflow

October 2022, MakeUC 2022

- Developed a prototype for an Android web app using **Android Studio** that scans and identifies your trash using a neural network trained using Google Cloud Services
- Neural Network data parsed using **Python** into a datasheet that is used by **Tensorflow**

SKILLS

Languages: Python, C, C++, SQL, JavaScript, TypeScript, HTML/CSS, Java, Lua, LabView, MatLab Coursework: Data Structures and Algorithms, Discrete Structures, Linear Algebra, Computer Networking Technologies: Linux, Git, AWS, Regex, ReactJS, ReactTS, .NET, Dash, Docker, Flask, Google Cloud, NodeJS