Christopher Woods

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EDUCATION

University of Michigan College of Engineering   **Dearborn, MI**

Bachelors of Science in Software Engineering; GPA: 3.7   *Sept. 2021 - Aug. 2025*

Courses: Advanced C++, Operating Systems, Computer Org and Assembly, Data Structures and Algorithms

EXPERIENCE

Apple Renaissance Program   **Detroit, MI**

Renaissance Intern   *July. 2024*

- Partnered with an assigned company, working directly with industry professionals to design and develop custom iOS applications tailored to meet specific client needs.

Riverside Research   **Beavercreek, OH**

Software Solutions Intern   *May 2024 - Aug. 2024*

- Collaborated on a research team to develop advanced techniques for exploiting computer memory vulnerabilities using electromagnetic fault injections.
- Wrote arduino scripts to evaluate memory usage and analyze byte patterns in non-volatile memory.
- Streamlined the memory scanning process, achieving a 27% improvement in experimental accuracy through automation.

Apple Developer Academy   **Detroit, MI**

Student iOS developer   *Aug. 2023 - June 2024*

- Developed and designed iOS applications with Swift and implemented various frameworks to enhance functionality and user experience.
- Learned how to apply user-centric approach in project development and created human-centered design methodologies to drive progress and deliver highly effective solutions that resonate with users.
- Collaborated within teams to create projects leveraging Apple's system of challenge-based learning.

PROJECTS

Overwatch 3

Swift, SwiftUI, Python/Flask, SQLite,

- Built and deployed a full-stack Overwatch database application leveraging Flask for the API and SQLite for data storage. Hosted on PythonAnywhere, resulting in a 30% reduction in API response time.

GoPoll375

Django, SQLite, HTML, CSS

- Worked within a scrum team for a Software Engineering class final project.
- Spearheaded backend development on GoPoll375, an online web app empowering users to create, manage, and share public polls simply by creating an account.

AI ImageGenerator

Python/Flask, HTML, CSS

- Designed and produced an interactive web application using Flask, allowing users to generate images from textual descriptions through artificial intelligence by seamlessly integrating the OpenAI API.

PROGRAMMING SKILLS

Languages: Swift, Python, C, C++, C#, HTML, CSS, SQL
Tools: Git/Github, Postman, Vim
Technologies: Linux, MacOS, Windows