Owen Edwards

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EDUCATION

University of Cincinnati   **Graduating: May 2025**

Bachelor of Science, Computer Science (GPA: 3.67)

- Primary Coursework: Operating Systems, Algorithms, Data Structures, Artificial Intelligence, Databases, Networks

SKILLS

Front-end: React (Material UI), Angular, TypeScript, JavaScript, HTML, CSS, Bootstrap, Tailwind
Back-end: C# (ASP.NET), Java (Spring Boot), Python (Flask), SQL (MySQL, PostgreSQL, MSSQL), JSON, XML
Tools: Docker, Virtualization, RESTful APIs, Azure DevOps, Git, GitLab, GitHub, Make, Visual Studio, VS Code, Agile
Operating Systems: Windows, Linux (Ubuntu, Mint, Kali), macOS, Android, iOS, WSL

EXPERIENCE

Paycor | Software Engineer Co-op | Cincinnati, OH   **May 2024 – Aug 2024**

- Reduced writer database load *by 60%* through query refinement and transitioning to a reader database, using **SQL**, **Java**, and **Spring Boot** for **RESTful APIs** with code coverage using **Mockito** and **JUnit** testing frameworks
- Eliminated *12+* critical security issues by addressing web vulnerabilities such as CRFD, SSRF, and cookie poisoning using **Flask (Python)** and **JavaScript**
- Cut local development setup time from *1 week to 5 minutes* by containerizing a **Flask (Python)** app with **Docker**
- Enhanced KnowledgeBase migration by replacing static **HTML** with dynamic **Angular (TypeScript)** variables

Siemens Digital Industries Software | Software Development Co-op | Milford, OH   **Jan 2023 – Dec 2023**

- Authored *over 40* change packages to enhance Siemens NX computer-aided design software functionality and worked on *45+* Problem Reports (PRs) to improve Drafting application quality
- Integrated new **C**++ APIs into existing legacy features, modifying dozens of files within an **object-oriented design** framework and using the **Standard Template Library (STL)** for data structures
- Collaborated with a team of *9* software engineers and a product manager to implement features across *3+* functional specification documents, utilizing **test-driven development (TDD)** and **continuous integration (CI)**

UC College of Engineering & Applied Sciences | Engineering Teaching Assistant | Cincinnati, OH   **Aug 2022 – Dec 2022**

- Mentored *24* first-year engineering students in **Python** programming, engineering best practices, and co-op search strategies, delivering tailored instruction and support

PROJECTS

Long-Distance Ride Share Mobile Application

- Developed a long-distance ride share app for **Android** using **Kotlin (Gradle)** with **Jetpack Compose**, **Material 3**, and **Retrofit**, supported by an **ASP.NET Core** backend and **Microsoft SQL Server** and **MongoDB** for data storage

Online Shopping Application | https://github.com/OwenAEdwards/E-Commerce-Website

- Built a full-stack e-commerce application with **Java Spring Boot** and **React.js (Material UI)**, utilizing **PostgreSQL**, **Hibernate/JPA**, and **RESTful APIs** for seamless data interaction and CRUD operations

iQ4 Cybersecurity Virtual Apprenticeship | https://shorturl.at/yHKPZ

- Led a team of *4* cybersecurity interns through weekly tasks, gaining *90 hours* of cybersecurity workforce experience and enhancing team skills and knowledge

E-Portfolio Website | https://owenaedwards.github.io/

- Developed a **responsive** static portfolio website with **HTML**, **CSS**, and **Bootstrap**, using **Google Fonts** and **Font Awesome** icons, and hosted it on **GitHub Pages**

Activities

3D Design and Automation Club   **Jan 2024 – Present**

AVAILABLE FOR FULL-TIME EMPLOYMENT: MAY 2025