# Owen Edwards

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## EDUCATION

**University of Cincinnati (GPA: 3.67/4)** — Cincinnati, OH
*Bachelor of Science in Computer Science* — *Expected May 2025*

- Relevant Coursework: Database Design, Design and Analysis of Algorithms, Operating Systems, Artificial Intelligence, User Interface

## EXPERIENCE

**Teaching Assistant** — Aug. 2022 – Present
*University of Cincinnati – College of Engineering & Applied Science* — *Cincinnati, OH*

- Assisted **110** students by holding **20** office hours per week and answering course-related emails related to the **C** programming language and **Linux** operating system
- Mentored **24** first-year engineering students in **Python** programming, engineering best practices, and co-op search strategies, delivering tailored instruction and support

**Software Engineering Intern** — May 2024 – Aug. 2024
*Paycor* — *Cincinnati, OH*

- 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 unit testing frameworks
- Eliminated **12+** critical security issues by addressing web vulnerabilities such as CRFD, SSRF, and cookie poisoning using **Flask** and **JavaScript**
- Cut local development setup time from **1 week to 5 minutes** by **containerizing** a Flask app with **Docker**
- Enhanced KnowledgeBase migration by replacing static elements with dynamic **Angular** variables

**Software Engineering Intern** — Jan. 2023 – Dec. 2023
*Siemens Digital Industries Software* — *Milford, OH*

- Authored **over 40** change packages to enhance Siemens NX computer-aided design software functionality
- Integrated new **C++** APIs into existing legacy features, modifying dozens of files within an **object-oriented design** framework, which enhanced user interaction and streamlined workflows in the Process Model application
- Developed and optimized **over 75** unit, integration, and regression tests with **Python** to validate API integrations and prevent future regressions

## PROJECTS

**Long-Distance Ride Share Mobile Application** | *Kotlin, Jetpack Compose, ASP.NET, MongoDB*

- Developed a long-distance ride share app for **Android** using **Kotlin** 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** | *React.js, Spring Boot, Java, RESTful APIs, PostgreSQL*

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

**E-Portfolio Website** | *React.js, Material UI, TypeScript, Vercel*

- Developed a **responsive** portfolio website using **React** and **Material UI**, leveraging **TypeScript** and **Next.js** for optimized performance and seamless routing, deployed on **Vercel** for reliable hosting and continuous integration

## TECHNICAL SKILLS

**Languages**: TypeScript, JavaScript, Python, C#, Java, C++, HTML, CSS, Bash, SQL, YAML, JSON, XML
**Technologies**: Azure, AWS, Docker, React.js, Angular, Svelte, MongoDB, Tailwind, Spring, ASP.NET, Flask, Node.js
**Concepts**: RESTful APIs, Containerization, Cloud Architecture, Linux, Full-stack, Backend, Frontend, Web Development, Unit Testing, Distributed Computing, Web Frameworks, Databases, Software Engineering, Multithreading, Mobile Development, Agile Methodologies, Cross-Platform Development, Responsive Design, Microservices Architecture