

UYEN DUONG

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EDUCATION

University of Cincinnati

Anticipated Graduation: May 2028

Bachelor of Science in Information Technology, Software Application Development, Minor in Computer Science

GPA: 4.0, Honors, Dean's List 2023

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, Typescript (Data Structures, Algorithms, Object-Oriented Programming)

Web Development: HTML/ CSS, React.js, Node.js, Express, ASP.NET, Django, Express, CORS

Databases: Microsoft SQL Server, MongoDB, RESTful API

Cloud: Google Cloud, Strapi

Tools: Linux, Windows, JIRA, GitHub, Microsoft Office, Figma, Adobe, Postman

WORK EXPERIENCE

Web Developer, *RevolutionUC, Cincinnati, Ohio*

September 2024 – Present

- Developed and deployed a website for the Hackathon, built with **Astro**, **Typescript**, **JavaScript**, and **HTML/ CSS**, resulting in an intuitive interface used by over 150 students.
- Engineered efficient **PostgreSQL APIs** with **Docker** file to enhance data querying, written in Typescript and **Nest.js**.
- Implemented **JSON** configuration, significantly reducing setup time and improving data management efficiency.

Software Engineering Intern, *Lesson Space, Hanoi, Vietnam*

November 2021 – July 2022

- Developed, enhanced, and designed a dynamic website for learning English management system with key features such as user authentication, class enrollment and class management, using **HTML/ CSS**, **JavaScript**, and **third-party APIs**.
- Performed product galleries using **UI/ UX** features, established an interactive prototype, leading to a rise in page views and increase **30%** in user engagement.
- Engaged in debugging and code refactoring to ensure the smooth operation of web page components.

PROJECTS

Community Crisis Reporting Application

November 2024

- Developed a full-stack web application using **Flutter** for the frontend and **Node.js/Express** for the backend, enabling real-time reporting and tracking of community issues such as potholes, power outages, and pollution.
- Implemented GPS tracking and Google Maps integration to allow users to submit location-based reports and view problematic areas on an interactive map, enhancing user experience and engagement.
- Designed and deployed **RESTful APIs** to handle report submissions and data retrieval, ensuring efficient communication between the frontend and backend, and facilitating seamless data management.
- Utilized modern web technologies and best practices using **CORS** configuration, responsive design, and continuous deployment with **Vercel** platform, ensuring a robust, secure, and user-friendly web application.

Edu Quiz Generator

November 2024

- Developed a full-stack application using **React.js** for the frontend and **Node.js/Express** for the backend, allowing users to upload documents and receive AI-generated quizzes based on document content.
- Integrated **Python** scripts and **OpenAI API** for automated quiz generation, utilizing libraries **PyMuPDF** and **python-docx** to extract and process text from PDF and DOCX files.
- Designed secure, **RESTful API** endpoints with **Axios** for front-end-back-end communication, managing file uploads and handling **CORS**, authentication, and error handling.
- Conducted end-to-end testing and troubleshooting with **Postman** and resolved networking issues, including configuring firewall and port settings to enable seamless local development.

EXTRACURRICULAR ACTIVITIES

Member | *Society of Women Engineers, University of Cincinnati*

August 2024 - Present

Leader | *Children International Summer Village*

April 2016 – Present

Event Manager | *Information Technology Student Association, University of Cincinnati*

August 2023 – August 2024