

# Umair Qidwai

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## EDUCATION

### The Ohio State University

*Bachelor of Science in Computer Science, Minor in Business*

- Honors Engineering Program | GPA: 3.9/4.0

Columbus, OH

*Sept. 2024 – May 2028*

### Harvard University

*CS50 course*

Online

*June 2025 – Nov. 2025*

### Google Project Management

*Certificate From Coursera*

Online

*June 2023 – Nov. 2023*

- Learned Agile & Scrum methodologies, sprint planning, risk management, and project execution strategies

## EXPERIENCE

### Full-Stack App Developer Intern

*Cybersense*

Aug. 2024 – Present

*Dublin, OH*

- Designed a cross-platform real estate matching app with React Native (Android) and SwiftUI (iOS), delivering smooth and platform-optimized user experiences
- Built and documented RESTful APIs with FastAPI to handle authentication, user profiles, and property queries
- Leveraged Supabase Postgres for scalable data storage and matching algorithm logic
- Developed and deployed an AI chatbot API as an internal prototype, integrated with OpenWebUI for testing

### Manufacturing System Operations Co-op

*American Honda Motor*

Aug. 2025 – Dec. 2025

*Columbus, IN*

- Enhanced PRTG Monitoring System by optimizing alerts and dashboards, reducing downtime incidents by 3%
- Improved Omnivex Moxie Server configuration to streamline real-time manufacturing displays
- Provided ongoing support and maintenance for Honda's high-availability manufacturing line IT systems

### AI Software Engineering Intern

*EZO Solution*

May 2025 – July 2025

*Austin, TX*

- Developed a context-aware AI chatbot using a vector database for real-time, domain-specific Q&A
- Built and deployed a full-stack AI solution by integrating a lightweight HTML/CSS frontend
- Implemented prompt optimization and embeddings-based search for higher response accuracy
- Integrated PaddleOCR into the AI chatbot pipeline, enabling image-to-text query support and multimodal interaction

## PROJECTS

### Smart Home Automation | *Embedded Systems, IoT, MQTT, Yaml, Linux*

June 2022 – Present

- Converted a legacy home security system into a smart, networked solution using an Arduino and Home Assistant
- Engineered a smart garage door opener with a microcontroller, relay, and reed switch
- Designed smart blinds and drawer locks using servo motors and NFC authentication, communicating over MQTT
- Developed a custom Linux-based smart speaker using Python scripts and cron jobs, automating recurring audio reminders

### Schedule Planner | *React, MYSQL, Git*

May 2024 – Oct. 2024

- Built a scheduling web app for OSU students with React frontend and MySQL backend
- Implemented advanced features: search, filtering, and prerequisite validation for optimized class scheduling
- Collaborated with peers using GitHub Projects for task management and code reviews

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres/MySQL), JavaScript, Swift, HTML/CSS, MATLAB

**Frameworks:** React, React Native, SwiftUI, Node.js, Flask, JUnit, WordPress, FastAPI, n8n

**Developer Tools:** Git, Docker, Google Cloud Platform, AWS, VSCode, Linux, Supabase, Cloudflare, Nginx, REST API

**Libraries:** NumPy, PyTorch, TensorFlow, pandas, scikit-learn