

Umair Qidwai

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EDUCATION

The Ohio State University <i>Bachelor of Science in Computer Science, Minor in Business</i>	Columbus, OH Sept. 2024 – May 2028
• Honors Engineering Program GPA: 3.9/4.0	
Harvard University <i>CS50 course</i>	Online June 2025 – Nov. 2025

Google Project Management <i>Certificate From Coursera</i>	Online June 2023 – Nov. 2023
• Learned Agile & Scrum methodologies, sprint planning, risk management, and project execution strategies	

EXPERIENCE

Manufacturing System Operations Co-op <i>American Honda Motor</i>	Aug. 2025 – Current 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 <i>EZO Solution</i>	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	
Full-Stack App Developer Intern <i>Cybersense</i>	Aug. 2024 – May 2025 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	

PROJECTS

Smart Home Automation <i>Embedded Systems, IoT, MQTT, Yaml, Linux</i>	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 <i>React, MySQL, Git</i>	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