Umair Qidwai

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Education

The Ohio State University — Columbus, OH
Bachelor of Science in Computer Science, Minor in Business — *Sept. 2024 – May 2028*

Harvard University — Online
CS50 course — *June 2025 – Nov. 2025*

Google Project Management — Online
Certificate From Coursera — *June 2023 – Nov. 2023*

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

Experience

AI Software Engineering Intern — May 2025 – July 2025
EZO Solution — *Austin, TX*

- Developed a context-aware AI chatbot using a vector database for real-time, domain-specific Q&A
- Developed scalable APIs with FastAPI, enabling seamless backend integration for intelligent query handling that reduced response latency by 25%
- Integrated lightweight HTML/CSS frontend and deployed full-stack AI solution
- Implemented prompt optimization and embeddings-based search for higher response accuracy

Manufacturing System Operations Co-Op — Aug. 2025 – Dec. 2025
American Honda Motor — *Columbus, IN*

- Enhanced PRTG Monitoring System, optimizing alerts and dashboards, which improved uptime 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

Full-Stack App Developer Intern — Aug. 2024 – Present
Cybersense — *Dublin, OH*

- Designed a cross-platform real estate matching app integrating user preferences and Supabase auth
- Built secure APIs in Python (FastAPI/Flask) to manage authentication, user profiles, and property queries
- Leveraged Supabase Postgres for scalable data storage and matching algorithm logic
- Developed frontends in React Native for Android and SwiftUI for iOS, ensuring platform-optimized user experiences

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 a smart drawer lock system using servo motors and NFC authentication for secure access
- Built motorized smart blinds, automated via MQTT protocol for IoT communication
- Developed a custom smart speaker on a Raspberry Pi, leveraging Python scripts and cron jobs to automate daily prayer time 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 3 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
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Eclipse, Linux, Supabase, Cloudflare, Nginx/Apache
Libraries: Pandas, NumPy, PyTorch, TensorFlow