

Faraaz Syed

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EDUCATION

The Ohio State University
B.S. in Computer Science and Engineering

Expected December 2027
Columbus, Ohio

WORK EXPERIENCE

BMW Group

September 2026 – Present

AI and Data Engineering Intern

Columbus, Ohio

- Engineer enterprise **AI solutions** using conversational AI and **n8n** to streamline document retrieval and dealer analytics, and architect scalable **AWS SageMaker** pipelines for internal automation.
- Develop **automated insurance valuation** and funding-verification workflows, integrating VIN analysis and identity validation to improve efficiency and reduce manual review.

Wahed Invest

July 2026 – September 2026

Software Engineering Intern

Columbus, Ohio

- Designed and built** [iwaqf.io](https://www.iwaqf.io), managing **£741K** in assets across **1,718** waqfs and implemented **TypeScript**, **Supabase**, and **Deno Edge Functions** with **Stripe** webhooks for secure financial processing.
- Processed **22K+** **financial transactions** by engineering RLS policies, authenticated RPCs, and idempotent settlement systems, managed recurring payments and granular gift allocations for secure donation processing.
- Automated operations for **132** causes and **£46K** in grants, engineered **Postgres** triggers, **Resend** cron pipelines, and **Cloudflare** deployment infrastructure for enhanced scalability.

The Hartford

May 2025 – August 2026

Software Engineering Intern

Columbus, Ohio

- Improved **data traceability** for insurance-platform integration by eliminating manual parsing, architecting a **Python** data pipeline with **lxml** and **openpyxl** to convert ACORD XML files into structured formats.
- Reduced manual effort and setup time by **40%** during LOB onboarding by engineering a reusable configuration framework that standardized requirement generation across **Excel**, **draw.io**, and structured-text formats.
- Enhanced data consistency and pipeline performance by **25%** by integrating **Vertex AI (Gemini)** with deterministic mappings, caching, and **SQLite/SQLAlchemy** to establish automated traceability.

The Ohio State University Center for Automotive Research

October 2025 – August 2026

Undergraduate Researcher and Software Lead

Columbus, Ohio

- Partnered with the Central Ohio Transit Authority (COTA) to build a **machine-learning** application that predicts electric-bus battery health and degradation while collecting operational data.
- Developed a web application and analytics dashboard; designed ETL pipelines to transform bus telemetry into weekly aggregates stored in **SQL** databases on **AWS**.
- Shaped product direction and code quality through product-vision discussions, issue troubleshooting, and code reviews across the application.

PROJECTS

Multi-Source Data Scraping & Analytics Platform

Python | Pandas | Selenium | BeautifulSoup | OpenAI API

- Developed a **Python** scraping pipeline with **Selenium**, **BeautifulSoup**, and **Requests**, processing **5,000+** salary records with automated cleaning, validation, and analysis.
- Built an analytics system using **OpenAI's GPT API**, **Pandas**, **NumPy**, and **Google Sheets** to categorize data with **90%+** accuracy and track salary, culture, and market trends.

OSU Calorie and Dieting App

JavaScript | React Native | Expo | REST API's

- Developed a cross-platform fitness app with **React Native** and **Expo**, integrating OSU's **NutriSlice API** for real-time calorie and macro tracking, customizable servings, and daily intake calculations.
- Deployed to the OSU community and reached **250+** students across multiple dining halls, providing personalized nutrition insights and accessible campus-dining data.

PlanMyDegree — OSU Academic Degree Planner

JavaScript | Python | Flask | HTML | CSS | MySQL

- Collaborated on a **five-person** team to build a full-stack application with **JavaScript**, **Python (Flask)**, **HTML**, **CSS**, and **MySQL** for **1,000+** students.
- Implemented prerequisite checking, requirement tracking, degree comparisons, and course lookup, improving planning efficiency by **40%** and user satisfaction by **30%**.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML, CSS, MATLAB, C, C++, R

Libraries & Frameworks: React Native, Expo, Flask, Pandas, NumPy, PyTorch, Matplotlib, Selenium, BeautifulSoup, Requests,

Developer Tools: Git, GitHub, VS Code, Eclipse, MySQL, Google Cloud Platform, AWS, Cursor, Claude, ChatGPT, Gumloop, n8n, Postman, Jupyter Notebook, Jenkins, Supabase