

Faraaz Syed

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EDUCATION

The Ohio State University (GPA: 3.96)

B.S. in Computer Science and Engineering

Expected December 2027

Columbus, Ohio

WORK EXPERIENCE

BMW Group

AI and Data Engineering Intern

September 2026–Present

Columbus, Ohio

- **Engineer enterprise AI solutions** using conversational AI and n8n to streamline document retrieval and dealer analytics; 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.

The Hartford

Software Engineering Intern

May 2025–August 2026

Columbus, Ohio

- **Architected a Python data pipeline** using lxml and openpyxl to convert ACORD XML files into structured formats, ensuring **data traceability** for insurance-platform integration.
- **Built a reusable configuration framework** that automated LOB onboarding and generated requirements across Excel, draw.io, and structured-text formats.
- **Integrated Vertex AI (Gemini)** with deterministic mappings, caching, and SQLite/SQLAlchemy to improve data consistency, traceability, and pipeline performance.

Ohio State University Center for Automotive Research

Student Software Engineer

October 2025–August 2026

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.

Ohio Manufacturing Innovation Center

Software Engineering Intern

June 2025–September 2025

Hilliard, Ohio

- **Developed a data pipeline** integrating quantitative and qualitative sources to structure compensation data, improving the accuracy of software-engineering pay insights.
- **Built automated scrapers** for company-culture and benefits data from Reddit, Levels.fyi, and H1Bdata, enabling **structured analysis of unstructured text**.
- **Designed an AI-driven Gumloop workflow** to generate newsletter content from Hacker News feeds, reducing manual drafting time and improving publishing consistency.

PROJECTS

Multi-Source Data Scraping & Analytics Platform

- **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

- **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

- 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 (MySQL), HTML, CSS, MATLAB, C, C++, R

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

Developer Tools: Git, VS Code, Eclipse, Google Cloud Platform, Cursor, OpenAI, Claude, Gumloop, n8n, AWS