

Aaryan Shah

West Lafayette, IN 47906 (Open to Relocation) | +1(908)-397-0089 | shahaaryan2411@gmail.com | www.linkedin.com/in/aaryanshah24 | www.aaryanshah.dev

EDUCATION

Purdue University

Bachelor of Science, Dual Degrees in Computer Science AND Business Analytics and Information Management
Certificate in Applications in Data Science AND Certificate in Entrepreneurship and Innovation

May 2027
West Lafayette, IN

PROFESSIONAL EXPERIENCE

Bendix Commercial Vehicle Systems

May 2026 – August 2026

AI & Automation Intern

Avon, OH

- Built and deployed LangGraph agents on Azure Functions to automate evaluation of large, cross-referenced documents, integrating Azure AI Search and semantic chunking to cut review cycles from 3+ months to 2 days.
- Engineered a multithreaded Python batch triage pipeline running a local Qwen model via Ollama/Aider to process 20,000+ Polyspace Code Prover static analysis findings, outputting structured verdicts to CSV with resume support and cross-file context resolution.
- Built a full-stack internal GenAI chat platform in React/TypeScript and Azure Functions, serving as the frontend interface for all deployed LangGraph agents and AI pipelines across the digitization team.
- Designed and deployed an Azure Functions-based data pipeline connecting to Microsoft Fabric SQL, enabling automated obsolete materials reporting through stored procedures and CLI tooling for engineering and procurement teams.

3M

January 2026 – May 2026

Project Manager/Scrum Master

Remote

- Led a cross-functional Agile team to deliver a GLIMS-integrated machine utilization and inventory management system, supporting 100+ weathering machines and 35K+ samples annually, enabling data-driven lab planning and throughput optimization and reducing lab downtime.
- Drove development of a SQL + Python backend and interactive dashboard to automate machine allocation and forecast consumable demand using runtime and lifecycle data, reducing manual workflows and inventory risk.

Bendix Commercial Vehicle Systems

May 2025 – December 2025

Artificial Intelligence Co-op

Avon, OH

- Delivered an end-to-end process automation with cross-team impact, reducing manual email processing time by 80%, cutting per-document costs by 95% (from \$1.30 to \$0.07), and halving manual workload by replacing a vendor tool with a custom in-house solution.
- Designed a web-based intelligence system using Selenium and BeautifulSoup to aggregate industry news on commercial vehicle brakes, integrating Ollama for LLM-based summarization and delivering insights to support market trend analysis and strategic decision-making.
- Automated extraction and transformation of 4000+ global 8D reports, building Python web scrapers, PDF/image-merging pipelines, and Copilot-based LLM processors that cut manual review time by 90% and accelerated root-cause analysis for Quality and Engineering teams.
- Built AI-powered assistants, like an LLM-based ticket intelligence agent, processing hundreds of IT tickets, helping cut manual effort by 60%.

Cisco

January 2024 – May 2024

Data Scientist | Mix Forecasting (2-stage hierarchical Demand Forecasts)

Remote

- Improved forecasting accuracy by 25% through development and optimization of hierarchical predictive models (XGBoost & Random Forest), achieving 90% accuracy at platform level and 70% at product level.
- Designed a scalable forecasting solution combining multivariate and univariate ML algorithms in a 2-stage hierarchical model, reducing forecast error and informing inventory management decisions.
- Presented insights to stakeholders through a Python dashboard, turning complex analyses into actionable recommendations.

PROJECTS

Cardfolio | iOS App

- Designed a three-stage card-parsing pipeline that runs entirely on-device, chaining Apple Vision OCR, deterministic regex extraction, and a quantized GLiNER ONNX named-entity recognition model, with image quality analysis prompting retakes on unclear photos.
- Built the backing platform on Supabase (Auth, PostgreSQL with row-level security, Storage, Edge Functions), supporting search, duplicate detection, collections, and direct export to iOS Contacts, alongside a public sharing layer that publishes sanitized profiles secured by 32-byte URL tokens, origin checks, salted rate limiting, and short-lived signed asset URLs.

WearWise | iOS App

- Built a smart-wardrobe iOS app with a Python FastAPI backend that segments clothing from user photos with Hugging Face SegFormer and tags category, style, and occasion with FashionCLIP, removing manual entry for every item.
- Built an outfit recommender that scores combinations on season, weather, color match, favorites, and wear frequency.

Long Short-Term Memory (LSTM) Neural Network for Stock Prediction

- Developed an LSTM recurrent neural network to forecast future share prices, achieving a test RMSE of 5.92 and minimizing test loss to 0.3%.
- Built a robust data pipeline using Pandas and Scikit-learn to ingest and normalize 13 years (2010–2023) of historical OHLCV market data, implementing a 20-day lookback window for temporal feature engineering.

LEADERSHIP & INVOLVEMENT

Purdue Computer Science – Teaching Assistant (CS 193: Tools): Mentored 900+ students on Unix/Linux, GitHub, and technical fundamentals, improving course completion rates. | **The Data Mine – Teaching Assistant:** Mentor student teams on industry-sponsored data and AI projects, guiding technical execution, project planning, and sponsor communication. | **University Residences Global – Peer Educator:** Guided international students on academic and cultural integration. | **Student Managed Investment Fund – Analyst:** Analyzed market trends and contributed to portfolio management decisions.

SKILLS AND INTERESTS

Programming Languages: C, Java, R, Python, SQL, Swift, TypeScript, HTML, Bash, Scala, Julia | **Tools:** Git, GitHub, Docker, OpenAI, Linux, Jira, Power Automate, Power Apps, Snowflake, Azure (Functions, AI Search), Microsoft Fabric, Ollama, Aider, Selenium, BeautifulSoup | **Frameworks:** React, FastAPI, SwiftUI, LangGraph | **Data Analysis and Modelling:** Pandas, Matplotlib, Tableau, PyTorch, TensorFlow, Power BI, Scikit-learn, XGBoost, Hugging Face, Supabase, PostgreSQL | **Methods:** Agile, Scrum, Sprint Planning, Prompt Engineering