Arnav Vadnere

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EDUCATION

The Ohio State University — Columbus, OH
B.S. Computer Science & Engineering, Minor in Business — August 2022 - May 2026 (Expected)

EXPERIENCE

Capital One — Chicago, IL
Software Engineering Intern — June 2025 - August 2025
- Engineered a serverless AWS Lambda endpoint to automate the transformation and deployment of LLM-generated PySpark code into executable AWS Glue jobs, cutting data-engineer manual coding effort by 30%.
- Built data ingestion pipeline with AWS S3 and DynamoDB to automate deployment and monitoring of 1,500+ Discover merger jobs, delivering 99.9% job uptime by implementing automated dependency testing with Pytest.

Kroger Technology & Digital — Blue Ash, OH
Data Engineering Intern — May 2024 - December 2024
- Implemented ETL workflows using PySpark and Databricks to process multi-terabyte datasets of 100,000+ products, enabling an LLM-based system using MLFlow to generate summaries for 20,000+ product reviews.
- Built a VSCode extension using an AI agent to auto-generate Jira tickets from code errors, parsing stack traces and runtime logs to create structured, reproducible bug reports and streamline developer workflow.

Own Company (Acquired by Salesforce) — Englewood Cliffs, NJ
Software Engineering Intern — May 2023 - August 2023
- Developed a cybersecurity anomaly detection dashboard using React and FastAPI, integrating real-time data streams from Databricks and interactive visualizations with Plotly.js for enhanced monitoring.
- Improved threat detection accuracy by 30%, reduced incident response times by 15%, and enabled identification of unauthorized Salesforce data access, triggering rapid incident response.

84.51° — Cincinnati, OH
Data Engineering Intern — June 2022 - August 2022
- Migrated client shopper data from Snowflake into Azure Blob Storage using SQL, reducing query times by 10% and improving data retrieval efficiency by 15%.

PROJECTS

MovieMatcher | *Next.js, TypeScript, Supabase, PostgreSQL, TMDB API, Vercel* — July 2024 - Present
- Built a full-stack movie matching app with swipe-based UX, room-based multiplayer sessions, and real-time sync via Supabase WebSockets, integrating TMDB API and streaming platform filters; deployed on Vercel.

Legal I/O | *React, FastAPI, PostgreSQL, Gemini API, LangChain* — January 2024 - May 2024
- Led technical development in a 4-person Intro to Software Startups class project, creating an AI-powered platform that analyzes financial documents for regulatory compliance, reducing manual review time by 15%.

EXTRACURRICULARS

OHI/O — Columbus, OH
Judging Lead, Sustainability Lead, and High School I/O Lead — August 2022 - Present
- Spearheaded HackOHI/O judging, recruiting 200+ industry judges (310% increase) and deploying a custom JavaScript automation tool that cut judging time by 40%, ensuring efficient evaluation for 1,200+ participants.
- Directed High School I/O, leading a cross-functional team of 40+ members while managing logistics, operations, and a $10K budget to deliver a program for 100+ students.

SKILLS

Languages: Python, JavaScript/TypeScript, Java, C/C++, HTML/CSS, SQL (MySQL, PostgreSQL, MongoDB, DynamoDB), x86, Ruby

Technologies: React, FastAPI, Node.js, PySpark, Databricks, Supabase, Vercel, Spark, LangChain, LLMs (OpenAI, Gemini), RAG, Pytest, Unit Testing, Flask

Cloud/DevOps: AWS (Lambda, EC2, RDS, S3, API Gateway, Cognito, DynamoDB), Azure, Firebase, Docker, Kubernetes, CI/CD, GitHub, Agile