

Aditya Gandhi

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EDUCATION

Purdue University, West Lafayette Bachelor of Science (B.S.) in Computer Science Honors Concentrations: Software Engineering, Machine Intelligence; Minor in Mathematics Relevant Coursework: Analysis of Algorithms, Data Structures & Algorithms, Data Mining & ML, Systems Programming, AI, Object-Oriented Programming, Statistical Methods, Competitive Programming, Robotics. Activities: Teaching Assistant (Analysis of Algorithms), Organizer for Hello World (Purdue's biggest Hackathon) Achievements: Alpha Lambda Delta Phi Eta Sigma (National Honor Society), Dean's List	August 2023 – May 2027 GPA: 3.0/4.0
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EXPERIENCE

Retailmind Software Engineering Intern (Distributed Systems) Forecasting, Prophet, Autogluon <ul style="list-style-type: none">Architected a distributed, multithreaded backend processing data across 4,500+ store-department entities.Built a low-latency hierarchical forecasting service achieving sub-300ms inference latency.Designed asynchronous pipelines to maintain availability under heavy compute and peak load.Implemented causal inference using vector search and Sentence-Transformers for sales anomaly analysis.	June 2025 – August 2025
Indegene Software Engineering Intern (Systems) Python, RAG, NLP, OpenAI <ul style="list-style-type: none">Built a content automation pipeline transforming structured Excel data into generated news articles.Developed a RAG-based microservice to analyze large regulatory documents for compliance review.	June 2024 – August 2024 KA, India
Duality Lab Undergraduate Researcher (ML Systems) <ul style="list-style-type: none">Leading a team of 5 to develop a cost-constrained coding agent runtime.Building on OpenSWE to create an agent with token usage, latency, and reliability as first-class constraints.	February 2026 – Present Purdue University
Privacy-Preserving Machine Learning Lab Undergraduate Researcher (ML Systems) PyTorch, TensorFlow, HPC Cluster <ul style="list-style-type: none">Optimized and benchmarked ML pipelines using interpretability methods (LIME, Conformal OOD).	August 2025 – December 2025 Purdue University

PROJECTS

HypeTrade GCP Cloud Run, Redis, CI/CD, FinBERT, React, DevOps <ul style="list-style-type: none">Architected a high-availability backend for a stock sentiment analysis website on GCP Cloud Run with 99% uptime and sub-300ms latency.Implemented CI/CD pipelines reducing deployment time by 90%.Built a FinBERT sentiment pipeline with dynamic batching, reducing inference cost by 56%.Led sprints and DevOps practices as Scrum Master for a cross-functional team of 6.Selected for Firestarter, Purdue's premier pre-incubator.
Systems Programming (Compiler & Shell) C, C++, Lex/Yacc, x86 Assembly, Linux <ul style="list-style-type: none">Implemented a C-to-x86 compiler using Lex/Yacc supporting control flow and memory allocation.Built a Unix-like shell with pipelines, I/O redirection, and robust signal handling on Linux.

TECHNICAL SKILLS

Languages: C++, Python, Java, C, SQL, TypeScript, JavaScript, x86 Assembly, C#, HTML/CSS, Bash
Systems & Infrastructure: Docker, GCP, Redis, CI/CD, Git, Linux, REST APIs, Kubernetes, Ansible, Jenkins
Frameworks & Tools: React, Vite, Node.js, LangChain, Flask, HuggingFace, Pandas, NumPy, Scikit-Learn, LaTeX