

# Aditya Gandhi

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## EDUCATION

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**Purdue University, West Lafayette**

**August 2023 – May 2027**

**Bachelor of Science (B.S.) in Computer Science Honors**

GPA: 3.0/4.0

**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

## EXPERIENCE

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**Retailmind**

June 2025 – August 2025

Software Engineering Intern (Distributed Systems) | Forecasting, Prophet, Autogluon

- 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.

**Indegene**

June 2024 – August 2024

Software Engineering Intern (Systems) | Python, RAG, NLP, OpenAI

KA, India

- 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.

**Duality Lab**

February 2026 – Present

Undergraduate Researcher (ML Systems)

Purdue University

- 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.

**Privacy-Preserving Machine Learning Lab**

August 2025 – December 2025

Undergraduate Researcher (ML Systems) | PyTorch, TensorFlow, HPC Cluster

Purdue University

- Optimized and benchmarked ML pipelines using interpretability methods (LIME, Conformal OOD).

## PROJECTS

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**HypeTrade** | GCP Cloud Run, Redis, CI/CD, FinBERT, React, DevOps

- 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

- 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

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**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