

Paras Mittal

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EDUCATION

Purdue University

B.S. Computer Science (specializing in Machine Learning) and Mathematics

West Lafayette, IN

Aug 2024 – May 2027

- **Relevant Coursework:** Algorithms, Computer Architecture, Linear Algebra II, Datamining & ML

SKILLS

Languages: Python, JavaScript, C/C++, Java, R, Mathematica

Technologies: LangChain, FastAPI, Azure (Cosmos DB, AI Search), Git, LaTeX, OAuth2.0, Google Cloud, Django, ARMv8

RESEARCH EXPERIENCE

Purdue University

Undergraduate Researcher, Advisor: Prof. Chunwei Liu

West Lafayette, IN

Oct 2025 – Present

- Conducting research in databases and AI, currently focusing on improving retrieval systems via traditional natural language processing methods, e.g. coreference resolution techniques, et al.

EXPERIENCE

Xerox

Software Engineering Intern

Rochester, NY

June – Aug 2025

- Developed autonomous support chatbot with **Python** and **LangChain's ReAct framework**, implementing chain-of-thought reasoning and tool-calling to diagnose Xerox product issues
- Built **FastAPI** backend with **Azure Cosmos DB** for storage and deployed GPT-4o for intelligent responses
- Taught engineers and customer support to use my tool to save time
- Collected data via reverse engineering and web scraping of Xerox sites for videos and product documentation
- Implemented auth with **OAuth2.0** from scratch

Frintz (startup)

Software Engineering Intern

Rochester, NY

Aug – Oct 2024

- Built ad-targeting using **computer vision** to correlate customer images to precise industry classification codes

Spraying Systems

Research Intern

Chicago, IL

May – Aug 2023

- Built RAG system using **GPT-3.5** and **Azure AI Search** to allow sales to quickly find information across product documentation
- Aggregated **4000+** detailed product specification documents and made them searchable, allowing a major time save for the Sales team

PROJECTS

Email Sentinel (GitHub)

Jan 2024 – Mar 2024

- Built open-source app to monitor email inboxes, classify emails with LLMs, and notify users with Telegram/Twilio APIs

ACHIEVEMENTS

Tutored 60+ students from 9 countries as a volunteer tutor at schoolhouse.world in **math/English**

Ranked **#44 nationally** amongst US high schools in the **CMU picoCTF** cybersecurity competition

Qualified for the **New York State Mathematics League** finals