

Mihir Mutyampeta

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SKILLS

Skills: Python, SQL, Excel, C/C++, R

Soft Skills: Verbal & written communication, attention to detail, problem solving, taking initiative, leadership, responsibility

EDUCATION

Purdue University

Bachelor of Science in Computer Science and Data Science

May 2026

GPA: 3.64

- **Minors:** Finance and Mathematics

- **Coursework:** Microeconomics, Macroeconomics, Linear Algebra, Real Analysis, Financial Management, Probability, Time Series Analysis (Upcoming Fall 2024), Pricing of Financial Derivatives (Upcoming Fall 2024)

- **Honors:** Dean's List, Semester Honors

WORK EXPERIENCE

United Wholesale Mortgage

Software Engineer Intern

Pontiac, Michigan

May 2024 - Aug 2024

- Developed containerized microservice to source and store **Octopus deployment data**, contributing to a large data lake
- Built a system to transform unstructured deployment data from Octopus into a complex relational database structure
- Improved data sourcing efficiency by **66.67%**, reducing runtime through enhanced local data storage & batch processing
- Expanded Octopus database by **200%**, by expanding relational architecture and explanatory metadata
- Contributed to applications enabling **10,000+ broker clients** to enhance customer relationships by sending closing gifts

John Deere Project - The Data Mine

Team Lead - Corporate Partner Teaching Assistant (TA)

West Lafayette, Indiana

July 2024 - Present

- Worked as the sole team lead for Microsoft Minecraft project in the past (July 2023 - June 2024)
- **Leading a team of 10** as Scrum Master and team leader, following Agile methodology
- Team utilized sentiment analysis and Topic Modeling, to parse and analyze large scale data from various social media platforms, in hopes to identify major industry competitors
- Upheld and exceeded stakeholders' expectations, **delivering results 15% faster** than expected deadlines

Hillenbrand Hall - Purdue University

Student Office Staff

West Lafayette, Indiana

November 2022 - Present

- Provided exceptional client customer service to all visitors at the front desk of a bustling residence hall
- Developed outstanding client interaction abilities, and heavily contributed to training 4 new employees over my tenure
- Conducted key audits during check-in in **record 2 hours time**, and reported to Senior Director of Residential Services
- Led reorganization efforts during check-in and check-out, **cut checkout time by 30%**

Correlation One, NY

Business Process Automation Intern

Remote

March 2022 - June 2022

- Improved operational **efficiency by 30%**, through **API based Python automation** scripts with GUI
- Developed automation processes, systems, and documentation of best practices to standardize Operations tasks
- Reduced cohort setup times by **40% through four scripts**, saving 10 hrs/week and over 50 hours per cohort

ACTIVITIES & AWARDS

Investment and Trading at Purdue (ITP)

Analyst

West Lafayette, Indiana

August 2023 - Present

- Conducted comprehensive financial research and analysis, using **DCF** valuation, developed a **BUY stock pitch** of Comcast (CMCSA) by leveraging advanced quantitative techniques and market insights, used Excel and PowerPoint

Alpha Sigma Phi Fraternity - Formal Director

Sep 2023 - Dec 2023

- Led formal committee, to plan all brotherhood events, and 2 major events of the year (Barn Dance and Formal)
- Efficiently handled budget, cutting Formal event costs by **20%** and overall event costs **by 12%**

Best Mental/Physical Health, Best DEI Hack: InnovateHer Hackathon- March 3rd, 2024 (Purdue University)

Runner up - Use of Repl.it: TreeHacks 2023 (Stanford University)

PROJECTS

Third Street Journal

Jan 2024

- Solution for finance education and strategy, implemented chat by combining capabilities of OpenAI + other APIs
- Developed UI using React and Next.js, running a Flask app on the backend, used Pinecone for vector database
- Used Pinecone for vector search for news, summarized news using GPT 3.5 Turbo API
- Developed chat using Langchain, optimized response time by **60%**, beat **GPT 4.0 over 50%** of the time on intermediate level financial queries