

Pragalvha Sharma

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EDUCATION

University of Western Ontario

Bachelor of Science in Computer Science and Ivey Business School AEO Status

London, Ontario, Canada

September 2023 - April 2027

Central Peel Secondary School

Ontario Secondary School Diploma (Scholar)

Brampton, Ontario, Canada

September 2019 - June 2023

- Top 6 Grade 12 Average: 98%, Advanced Placement Gold Standard

EXPERIENCE

Blanc AI

Cofounder | Next.js, FastAPI, LLMs

London, Ontario

October 2024 - Present

- Developed a vertical SaaS solution for contractors that automatically calculates required material quantities and generates quotes
- Built an AI agent that analyzes project specs and sources materials directly from Home Depot's catalog in real-time
- Successfully deployed and currently used by general contractors, generating over 5000+ quotes to date
- Backed by Western Accelerator from Morrisette Institute for Entrepreneurship (\$12,000)
- Backed by Ripple Ventures (Ripple X Fellowship)

Western University Faculty of Engineering

Data Scientist | Python, MATLAB, LLMs

London, Ontario

January 2024 - Present

- Worked under Dr. Sabina Rakimbekova in the Faculty of Engineering on student success research initiatives
- Analyzed large-scale student performance data across multiple engineering departments and courses using AI
- Developed algorithms to extract meaningful insights from educational data sets
- Generated comprehensive data visualizations and reports to identify trends in student academic performance

Infin8

Full Stack Engineer | React, Django, PostgreSQL, AWS, LLMs

Remote

April 2024 - August 2024

- Contributed to developing and maintaining ERP systems for 3+ clients using React for front-end development
- Used Django for the back end, PostgreSQL for database management, and deployment on AWS
- Built a text to SQL agent to query databases for a medium sized company, using LLM agents
- Assisted with common bug fixes within the ERP systems to improve system performance and reliability

Mustang Capital

Quantitative Analyst | APIs, Flask

London, Ontario

February 2024 - Present

- Developed an algorithm to identify positive arbitrage opportunities between Polymarket and sports betting sites
- Optimized betting strategies by calculating the precise amount to wager for maximum returns
- Currently working on automating trades for autonomous execution

PROJECTS

NASA/NSS Gerard K.O'Neill Space Settlement Contest: Gaia's Hope

October 2022 - May 2023

- Earned 1st place globally, outperforming 26,725 students across 19 countries and surpassing 4,567 entries
- Received worldwide recognition through NASA/NSS official page and featured in multiple local newspapers
- Successfully secured \$20,000 in grants for participation in the 2023 International Space Development Conference

ERP Generator | React, Django, LLMs

January 2024 - Present

- Co-developed an agentic architecture with Large Language Models to generate enterprise software when given a company's business problem/logic
- Wrote code to generate React Frontend and Django Backend

Text to SQL Agent | LangChain, PostgreSQL, FastAPI

April 2024

- Developed an AI agent that converts natural language queries into SQL for database interactions
- Integrated with existing ERP system of a medium-sized business to enable non-technical users to query data

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C

Technologies: React, Next.js, Django, FastAPI, Vector Databases, Large Language Models

Databases & Tools: PostgreSQL, MongoDB, AWS, Git, Docker

Interests: Startups, Artificial Intelligence, Animation