

Usha Sophea Janardhan

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EDUCATION

University of Toronto | Honours BSc, Computer Science Specialist, Mathematics Minor Sept 2022 – Jan 2027

- Awards: UofT International Scholar, UofT Scholar, UofT Principal's Entrance Award
- Relevant courses: Machine Learning, AI, Computer Vision, Distributed Systems, Operating Systems, Parallel Programming, Databases, Software Engineering

University of Helsinki | Exchange Semester, Faculty of Computer Science Fall 2025

- Completed 8 graduate level courses; wrote a bachelor's thesis-style paper on contraction hierarchies for fast route planning.

EXPERIENCE

Product Manager & Full-Stack Engineer | [SpendWise \(UofT CSC301\)](#) Jan – Apr 2026

- Led a 7-person team through sprint planning and roadmapping, using 1-on-1 check-ins to unblock UI, backend and data work.
- Built a scraper for UofT's Award Explorer that ingested 4,300+ scholarships into a normalized Django/PostgreSQL model with UUID keys, indexed filters and upsert logic, keeping duplicates at zero across re-runs.
- Built the scholarships feature end to end in React and Django REST Framework: profile-based matching with match reasons, a drag-and-drop application tracker and a reusable deadlines widget.

LLM Engineer | [ourPATHS \(UofT Real World AI/ML Systems\)](#) May – Sep 2025

- Built a RAG chatbot end to end in Python and FastAPI for stakeholders at 3 pharmaceutical companies, using a fine-tuned Cohere classifier to route queries across 3 intents (document lookup, price, timeline) with ~95% accuracy.
- Grounded answers in source documents by retrieving the top 3 semantically relevant chunks and returning structured GPT-4-mini responses with key details, caveats and cited source PDFs.
- Co-developed a pipeline that scraped 800+ health technology assessment decisions from CDA, pCPA and Health Canada, then chunked and tagged them with metadata into 10K+ OpenAI embeddings on Azure Blob Storage.

Software Engineer Intern | ParkUsher | Montreal, QC Jun – Aug 2025

- Redesigned Premium/Free user profile flows from user feedback and benchmarking of 4 competitor products, shipping the new React front end to 22K+ users through Agile sprints with design and marketing.
- Led backend handoff across 6 design-development iterations with clear technical documentation, cutting feature delivery cycle time by 20%.

PROJECTS

Socrato AI Study Assistant (CSC492) | Python, FastAPI, Gemini, Pydantic Jan – Apr 2026

- Owned the flashcard feature end to end: Gemini-generated decks from student notes, flip-card review with difficulty ratings and SM-2 spaced-repetition scheduling.
- Built FastAPI endpoints for summaries, quizzes and flashcards using engineered prompts and strict JSON schemas validated with Pydantic, so malformed model output fails cleanly.

Portfolio Optimization Tool | Python (FastAPI, cvxpy, pandas), React Dec 2025

- Built a full-stack optimizer that solves mean-variance convex optimization under volatility constraints, with a React dashboard for the efficient frontier, sector allocation and backtests against the S&P 500.

LEADERSHIP

UTM Google Developer Group on Campus | Co-President Aug 2024 – Aug 2025

- Organized the UofT Women in Tech Conference 2025 (500+ attendees over 2 days) with a tricampus team of 40+, leading speaker outreach, sponsors, volunteers and day-of operations.
- Led a 20-person executive team and secured \$14K+ in sponsorships to deliver 12+ technical workshops and networking events for 200+ students.

UTM Robotics | Vice President of Finance May 2024 – May 2025

- Increased club funding by 178% through new sponsorships: funding workshops, [Quanser QBot2e robot soccer](#) and WallyHacks 2025, UTM's first hardware hackathon (60+ teams).

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C, SQL (PostgreSQL, MySQL), HTML/CSS, Bash

Frameworks: React, Next.js, Node.js, FastAPI, Django, Tailwind

AI/ML: LLM/RAG pipelines, OpenAI, Gemini, Cohere, TensorFlow, scikit-learn, OpenCV, NumPy, pandas

Tools: Git, Docker, AWS, Azure, Jira, Figma