

Mithil Damani

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Education

University of Waterloo

Sept 2021 – Apr 2026

Bachelor in Computer Science (Co-op)

- GPA: 3.7/4.0
- **Coursework:** Algorithms, Object-Oriented Software Development, User Interfaces, Data Structures and Data Management, Introduction to Machine Learning, Deep Learning Specialization (Coursera)

Experience

Software Engineer Intern

Toronto, ON

StackAdapt

May 2025 – Dec 2025

- Engineered and launched a measurement study that links ad impressions from advertiser campaigns to audience browsing behaviour using React, GraphQL and Ruby on Rails, contributing \$500K+ in attributed revenue
- Led a PoC to persist production data in staging, improving pre-release testing and reducing on-call issues by 15%
- Created 14+ reusable React components with Storybook docs in a shared MFE, cutting new study build time by ~35%
- Implemented a GraphQL userErrors framework for standardized error handling and added structured Rails logging plus Grafana metrics for query/mutation latency and throughput, improving incident detection and resolution by ~40%

Machine Learning Intern

Dallas, TX

Cynapta

Aug 2024 – Dec 2024

- Built full-stack system with Next.js and Firebase, enabling users to generate social media content for their websites, reducing content creation and publishing time by 40% compared to manual workflows
- Implemented RAG-based system by scraping web content and incorporating chat history to augment LLM prompts, allowing accurate and context-aware social media content generation, resulting in 20% increase in user engagement

Software Developer Intern

Oakville, ON

Geotab

Jan 2024 – Apr 2024

- Modernized Assets page UI using optimized React components, boosting overall usability for 100k+ users
- Authored Jest and Selenium test suites in C# to validate functionality and integration of 6 new components

Machine Learning Intern

Burlington, ON

WealthyPlanet

May 2023 – Aug 2023

- Fine-tuned GPT-3.5-turbo using a curated dataset based on most preferred ChatGPT responses to build a personal finance optimization engine for 5k+ users, improving user satisfiability by 20% (thumbs-up ratings)
- Trained a reward model on user binary preference data, achieving 75% accuracy
- Added support for the financial chatbot using a bubble.io UI, achieving a usage rate per login of over 70%

Software Developer Intern

Remote

Niyo

May 2022 – Aug 2022

- Extended GraphQL backend with 15+ queries and 5+ mutations as part of company's REST to GraphQL migration
- Migrated React pages to GraphQL by integrating Apollo Client, improving Transactions page performance by 20%

Projects

SynthCheck

kaggle

- Fine-tuned ResNet-50 using PyTorch to classify real vs AI-generated images, and optimized model performance through grid hyperparameter search to achieve an F1 score of 0.92 and a final validation accuracy of 93%

FaceMask Detection

kaggle

- Fine-tuned YOLOv8 to detect and localize facemasks in real-world images with 80% accuracy
- Implemented data augmentation to enhance model robustness, achieving 4% increase in accuracy

Skills

Languages: Python, C++, C, SQL, JavaScript, TypeScript, Ruby

Tools and Technologies: React, GraphQL, MySQL, Ruby on Rails, Node.js, Git, Jira, PyTorch, Pandas, Numpy