

Connor Pink

Burlington, Ontario

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EDUCATION

University of Guelph

Guelph, ON

Master of Science in Computer Science – AI and Machine Learning Focus

Jan. 2025 – Present

- Research in generative AI, computer vision, and explainable AI for healthcare imaging; coursework in Deep Learning and Advanced Machine Learning
- Recipient of the QEII-GSST scholarship; total funding received from the University of Guelph approximately \$55,000

Trent University

Peterborough, ON

Bachelor of Science (Honours) in Computer Science with Co-op – 84.08% Average

Sept. 2020 – July 2024

- Dean's Honour Roll and Trent University Entrance Scholarship recipient

EXPERIENCE

Graduate Research and Teaching Assistant

Jan. 2025 – Present

University of Guelph

Guelph, ON

Research Assistant – Dr. Sykes AI and Healthcare Lab

- Develop PyTorch-based generative and computer vision systems for healthcare imaging, including diffusion, GAN, and segmentation workflows
- Build reproducible end-to-end pipelines for data preparation, training, evaluation, and explainability, with Docker deployments on GCP and AWS
- Contribute to research papers and communicate technical findings to collaborators across AI and healthcare domains

Teaching Assistant

- Support CIS 3110 Operating Systems, CIS 4150 Software Testing, and CIS 3120 Digital Systems through labs, grading, and office hours

Student Developer Co-op

May 2022 – Dec. 2023

Employment and Social Development Canada (ESDC)

Remote

- Built and maintained government web applications using .NET, TypeScript, LINQ, MVC, Node.js, and PL/SQL
- Collaborated in Azure DevOps-based delivery workflows across front-end, back-end, and database changes

Information Technology Co-op

Aug. 2021 – Mar. 2022

Peterborough Regional Health Centre (PRHC)

Peterborough, ON

- Developed PowerShell automation for Active Directory administration and helped maintain healthcare IT systems
- Built an internal asset management web application with PHP and MySQL to support equipment tracking

PROJECTS

Generative AI Pipeline for Medical Imaging | *Python, PyTorch, Docker, GCP*

Jan. 2025 – Present

- Designed an end-to-end pipeline for synthetic medical image generation, fine-tuning, and evaluation with reproducible experimentation workflows
- Improved output quality by 15% through iterative validation, error analysis, and explainable AI-driven model inspection
- Published at the CanAI Conference 2026 and deployed containerized inference services for scalable research use

Full-Stack Web Applications | *React, Node.js, Express, MongoDB*

Ongoing

- Develop and deploy full-stack applications with REST APIs, database-backed features, and responsive front-end interfaces
- Portfolio projects span product-style builds and practical tooling, demonstrating breadth beyond research-focused work

TECHNICAL SKILLS

Languages: Python, Java, C, C#, JavaScript, TypeScript, PL/SQL, PHP, HTML/CSS, PowerShell

AI/ML: PyTorch, MONAI, WandB, TensorFlow, Scikit-learn, Diffusion Models, GANs, U-Net, Explainable AI

Web & Software: React, Node.js, Express, .NET, REST APIs, MongoDB, MySQL, GitHub Actions, CI/CD

Cloud & Tools: Docker, GCP, AWS, Azure DevOps, Git, GitHub, Jupyter, Conda, VS Code