Christopher Tardy

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Education

Master of Science in Computer Science (PhD-track)
University of British Columbia, Vancouver, Canada — *Sep 2026 – Present*
- Supervised by Prof. Frank Wood at the Pacific Laboratory for Artificial Intelligence (PLAI).
- Mitacs Accelerate Fellowship in partnership with Layer 6 AI (TD Bank).

Bachelor of Computer Science (BCS)
University of British Columbia, Vancouver, Canada — *Transferred to MSc 2026*
- Grade: 86% (4.0 / 4.33)
- Directed Study under Prof. Frank Wood on machine learning data pipelines for embodied AI training (see Project Elephant).
- Science Undergraduate Research Experience (SURE) Award, AML-TN Undergraduate Research Award, Summer 2026.

Bachelor of Commerce — International Business
Concordia University, Montreal, Canada — *Graduated May 2022*
- International Case Competition Team; Coach for Entrepreneurship; 1st Place at JDC Central 2023.
- Patrick Prefontaine Scholarship in International Business.

Technical Skills

Languages: Java, JavaScript, TypeScript, C, C++, HTML, CSS, SQL, Python
Frameworks/Libraries: PyTorch, NumPy, Hydra, React, Vite, Spring Boot, Express.js, Mongoose, Flask
Databases: MongoDB, PostgreSQL
AWS: API Gateway, Bedrock, Agentcore Evals, CloudFormation, CodePipeline, DCV, EC2, Lambda, RDS, Route 53, S3
Other Technologies: Slurm, Model Context Protocol (MCP), Liquibase, Auth0, Stripe, Kubernetes

Work Experience

Software Engineer I — Co-op
Planview, Vancouver, BC, Canada — *Sep 2025 – April 2026*
- Rewired Spring MVC Controller-Service dependencies and wrote JUnit integration tests for new API endpoints to support migration to Model Context Protocol (MCP), contributing to 5x less error messages and 10k fewer lines of code.
- Conducted technical analysis on multiple LLM evaluations vendors, led a team decision to implement custom LLM-as-a-judge framework for grounded-truth evals. Architected and built an asynchronous Spring MVC API for evaluation including a database queue to poll pending jobs in a PostgreSQL database. Reduced regression testing time by over 95%.
- Built a full-stack observability dashboard for customer usage tracking, implemented offset-based infinite scroll and header-based filtering in React to render and export large datasets via custom Spring MVC endpoints.

Full-Stack Developer (Volunteer) — PLAICraft (link)
Pacific Laboratory for Artificial Intelligence (PLAI), Vancouver, Canada — *Dec 2024 – Aug 2025*
- Contributed to a full-stack rebuild of a browser-based research project with 10,000 participants for multimodal AI research.
- Configured RESTful APIs via AWS Lambda Python scripts, CloudFormation, and DynamoDB (NoSQL).
- Developed React/TypeScript UI components and handled user authentication, parental consent, and custom validation error routing from backend to UI using TanStack Query, resulting in full BREB ethical compliance.

Engineering Project Lead
YPR Canada, Montreal, QC — *Mar - Nov 2023, Feb 2026*
- Raised $25k and led a team of 3 engineers to build a public relations AI writing assistant using LLM augmented with a news scraping API and a cosine similarity-based scoring algorithm.
- Engineered the full-stack architecture using Python Flask and JavaScript, implemented user authentication and subscription billing with Okta Auth0, Stripe and Amazon RDS.
- In 2026, Transitioned from news scraping API to LLM-based grounded context, implemented thread pool for asynchronous request handling and deployed on AWS App Runner, resulting in 93% cost reduction and 1.4x faster response time.

Technical Projects

Project Elephant (link) — Research Project — *AWS, Python, JavaScript* — *Sep 2025 - Present*
- Architected a machine learning data pipeline using Amazon DCV to stream desktop applications from EC2 Windows instances, capturing user interactions (screen, audio, inputs) server-side and writing them to an S3 bucket.
- Forked an open-source desktop capture project (Open World Agents) to support multiple audio channels and run on non-GPU hardware, resulting in 85% cloud cost reduction.
- Engineered a virtual tutoring environment with meeting scheduling using AWS Lambda, DynamoDB and JavaScript, resulting in a multimodal dataset capturing student-teacher interactions to be used for AI training.

Gitopia (link) — Web Game (BCS Hacks 2025) — *Phaser.js, Express.js, MongoDB, Netlify/Render* — *Mar 2025*
- Built a game to learn Git using Phaser.js with Express.js backend and MongoDB Atlas for persistent user data.
- Won first place out of 40 teams in two tracks: "Best Use of Technology" and "Community Favourite".