

DAMIAN MELIA

+1(647) 227-5391 Toronto, ON damian@damian717.com <https://damian.is-a.dev>

EDUCATION

University of Toronto Scarborough 2022 - 2026 (Expected)
Honors Bachelor of Science - Specialist in Computer Science, Major in Mathematics
Relevant Coursework: Algorithm Design & Analysis, Operating Systems, Engineering Large Software Systems

EXPERIENCE

Software Engineer November 2025 - Present
JDRF Electromag Engineering *Port Credit, ON*
Python, Shell, C, Azure Pipelines, Prometheus, Grafana, Ansible

- Built automation tools for field agents to interface with products using **Python**, improving customer service experience and reducing response times.
- Contributed to internal testing tool enabling developers to easily test product configurations using **Protobuf** and **BLE** through Nordic dev boards.
- Built monitoring system for CI/CD and logging infrastructure using **Prometheus** and **Grafana**, tracking internal processes with custom metrics and automating provisioning via **Azure Pipelines** and **Ansible**.

Software Developer Intern January 2025 - December 2025
Bank of Montreal (BMO) *Hybrid*
Typescript, Javascript, Java, Angular, AWS

- Migrated **OpenAPI Cloud API** across teams, converting from **JavaScript** to **TypeScript** while implementing software engineering **best practices** for improved **maintainability**.
- Optimized **Angular/Typescript** micro frontend build scripts, reducing build & deployment times by **30%**.
- Developed **key features** for commercial banking web app using **Typescript** and **Angular**, improving reporting & account management workflows.

Research Software Engineer — [View](#) January 2025 - August 2025
UofT, UofM, USC, Harvard University *Remote*
Typescript, React, Python, Azure

- Developed **full-stack** "Sketch-then-Generate" platform using **Typescript, React, and Python**, converting NLP to code via custom markup.
- Engineered **custom language** & parser in **Python** for structured code generation from natural language.
- Built **intelligent autocomplete** with AST parsing & LSP integration using **Typescript** for context-aware code generation.

Software Engineering Advisor August 2024 - January 2025
AVOLTA Inc *Remote*
Javascript, PostgreSQL, Express, Docker

- Architected API testing framework **using Javascript (Jest)**, boosting test coverage by **60%**.
- Engineered **PostgreSQL** DB schemas, improving query performance by **30%** & cutting data redundancy by **20%**.
- **Mentored 3** interns in software design, key resources, and code reviews, **fostering their technical growth**.

Software Developer Intern January 2024 - September 2024
JDRF Electromag Engineering *Port Credit, ON*
Swift, Python, Github Actions, CoreBluetooth, BLE

- Implemented automated Slack alerts for CI/CD **using Python with Github Actions**, increasing team responsiveness by **90%**.
- Led refactoring of a core **Swift** module, **greatly enhancing code modularity**.
- Managed CI/CD pipelines (**Github Actions**), cutting deployment time by **15%** & achieving **90%** test coverage.

PROJECTS

Personal Portfolio Website — [View](#)
NextJS, Javascript, TailwindCSS

- Developed Neovim-terminal style portfolio showcasing UI design creativity.
- Built custom React hook for Vim keybindings, enabling efficient keyboard-driven navigation.
- Engineered custom link rendering for full keyboard accessibility & Vim-style interaction.

EXTRACURRICULAR ACTIVITIES

CSEC (Computer Science Enrichment Club) - VP of Technology

- Hosted lectures on Working on a team with Git and Software Engineering Best Practices.

DS3 (Data Science Student Society) - Director of Technology

- Led development of the club website and datathon leaderboards.

SKILLS

Languages: Java, Python, C, HTML, CSS, JavaScript, Typescript, Golang, Swift
Frameworks / Libraries: React, Angular, NextJS, ExpressJS, NodeJS, TailwindCSS, HTMX, Vite
Developer Tools: Git, Linux, Bash, Android Studio, Kubernetes, Docker