

DAMIAN MELIA

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

EDUCATION

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

| | |
|---|--|
| Software Engineer JDRF Electromag Engineering <i>Python, Shell, C, Azure Pipelines, Prometheus, Grafana, Ansible</i> | November 2025 - Present Port Credit, ON |
|---|--|

- 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 Bank of Montreal (BMO) <i>TypeScript, Javascript, Java, Angular, AWS</i> | January 2025 - December 2025 Hybrid |
|---|--|

- 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 UofT, UofM, USC, Harvard University <i>TypeScript, React, Python, Azure</i> | January 2025 - August 2025 Remote |
|--|--------------------------------------|

- 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 AVOLTA Inc <i>Javascript, PostgreSQL, Express, Docker</i> | August 2024 - January 2025 Remote |
|---|--------------------------------------|

- 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 JDRF Electromag Engineering <i>Swift, Python, Github Actions, CoreBluetooth, BLE</i> | January 2024 - September 2024 Port Credit, ON |
|---|--|

- 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 <i>NextJS, Javascript, TailwindCSS</i> | |
|--|--|

- 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 | |