

DAMIAN MELIA

+1(647) 227-5391 ◊ Toronto, ON

damian@damian717.com damian717.com

SKILLS

Languages: Java, Python, C, HTML, CSS, JavaScript, Typescript, Golang, Swift

Frameworks / Libraries: React, NextJS, ExpressJS, NodeJS, TailwindCSS, HTMX

Developer Tools: Vite, Git, Linux, Bash, Android Studio, Kubernetes, Docker

EDUCATION

University of Toronto Scarborough

2022 - Present

Honors Bachelor of Science - Specialist in Computer Science, Major in Mathematics

VP of Tech @ Computer Science Enrichment Club (CSEC)

Director of Tech @ Data Science and Statistics Society (DS3)

EXPERIENCE

Software Engineering Advisor

August 2024 - Present

AVOLTA Inc

Remote

Javascript, PostgreSQL, Express, Docker

- Designed and implemented an API testing architecture that increased test coverage by 60%, utilizing Jest and Supertest within an ExpressJS framework.
- Engineered database schemas in Supabase that improved query performance by 30% and reduced data redundancy by 20%, ensuring efficient API operations.
- Refactored existing APIs to improve modularity, making them more testable and maintainable, reducing technical debt and enhancing the overall system performance.
- Mentored and guided 3 interns by providing design suggestions, directing them to key resources, and conducting regular code reviews, which resulted in a 40% improvement in their coding efficiency and overall project contribution.

Software Developer Intern

January 2024 - September 2024

JDRF Electromag Engineering

Port Credit, ON

Swift, Python, Github Actions, CoreBluetooth, BLE

- Implemented an automated Slack alert system for task completion/failure, increasing team responsiveness by 100%.
- Led a refactoring initiative for a key software module, improving code maintainability by 25%.
- Managed CI/CD pipelines, reducing deployment time by 15% by optimizing build scripts.
- Conducted extensive unit testing in Swift, achieving 90% code coverage and reducing the runtime by 30%.

Developer / Plugin Engineer

July 2023 - January 2024

Treasurelands

Toronto, ON

Java, PostgreSQL

- Developed and maintained 20+ Minecraft plugins, enhancing gameplay and driving 15% higher player retention.
- Engineered load-balancing proxy with BungeeCord, resulting in 30% faster connections and reduced latency.
- Collaborated with a 3-person development team for code reviews and best practice adherence.
- Managed databases for 10,000+ players' data, optimizing performance and ensuring stability.
- Researched and integrated new technologies, boosting plugin performance by 25% and maintaining compatibility.

PROJECTS

StudyBuddies

Go, Typescript, React Native, PostgreSQL

- Architected and implemented a robust backend using Go and the Gin framework, facilitating efficient handling of various CRUD operations and secure user data management through structured deserialization and comprehensive error handling.
- Designed and integrated a relational database using PostgreSQL, optimizing data storage and retrieval for user, course, and study session information, ensuring seamless interactions between the client and server via well-defined API endpoints.
- Developed and deployed real-time location tracking features using Google Maps API, enabling users to view campus buildings, study spots and the location of their friends in real time, enhancing the app's usability and engagement.
- Implemented a messaging system that supports real-time communication between users, leveraging Go channels and WebSocket connections, ensuring low-latency interactions and a smooth user experience.

Personal Portfolio Website — [View](#)

NextJS, Javascript, TailwindCSS

- Created a visually engaging portfolio website using NextJS, HTML3, & Tailwind CSS to showcase diverse skills.
- Employed component-oriented design for maintainable code and integrated reactive components for an enhanced user experience.
- Developed and maintained a dynamic Articles section on my personal portfolio website, showcasing my expertise and insights on various technical and industry topics, engaging a diverse audience.
- Implemented a custom Content Management System (CMS) using a CRUD API in Go, enabling efficient management of articles directly from my website. This system supports creating, reading, updating, and deleting (CRUD) operations, streamlining content workflow and ensuring the website remains up-to-date and relevant.

Stack Selector — [View](#)

Go, HTMX, MongoDB

- Spearheaded the development of "Stack Selector," a full-stack web application designed to recommend technology stacks to developers based on project specifications, enhancing decision-making and project planning efficiency.
- Engineered a robust REST API using Go, facilitating seamless interactions between the frontend and a MongoDB database, thereby ensuring reliable data management and application responsiveness.
- Integrated MongoDB for storing technology stacks and project criteria, optimizing data retrieval with advanced querying for personalized technology stack recommendations.
- Employed HTMX on the frontend to create a dynamic and user-friendly interface, enabling real-time content updates without page reloads, significantly improving the user experience.
- Implemented a sophisticated algorithm that analyzes user responses to project-specific questions, delivering tailored technology stack suggestions that align with project requirements and developer preferences.

ShopTrack

Java, Firebase, Android Studio

- Engineered a comprehensive e-commerce Android application, "ShopTrack," using Java. This prototype utilized Firebase Realtime Database to manage user data effectively, ensuring robustness and responsiveness.
- Successfully established dual capabilities catering to both store owners and shoppers within the "ShopTrack" app, enabling efficient order placement and fulfillment processes.
- Orchestrated end-to-end functionalities for order processing, contributing to the execution of numerous simulated orders and enhancing the app's practicality and performance.