

# Michael Di Giuseppe

<https://mdigi.us.vercel.app/>

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## EDUCATION

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- **Western University** Ontario, Canada  
*Software Engineering* *Sep 2021 – Apr 2025*
  - Third year average of 84%
  - Excelling with a 100% final course grade in ES1036 (Java Fundamentals), and 97% in SE2250 (Software Construction)
  - Engaged in extracurricular pursuits, including active participation in Muay Thai, music, and engineering competitions

## SOFTWARE PROJECTS (SEE PORTFOLIO FOR MORE INFO)

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- **ChordSense (Swift/SwiftUI)**
  - Co-founder and independent developer of the iOS version of ChordSense, a published app designed to simplify music theory learning
  - Stores user's music creations and settings with the newly introduced SwiftData framework
  - Designed marketing assets for the app including multiple logos, app description, and App Store previews
  - Implemented in-app purchases and the handling of transactions with Apple StoreKit
- **HeroHub (NextJS, MongoDB, AWS)**
  - Final project for SE3316 course to build and host a full stack web app, featuring a superhero-themed social media platform
  - Includes an authentication system, with salted password hashing
  - RESTful API to provide functionality to the client, while preventing malicious injections with proper input sanitization
  - Admin account to disable other users, hide inappropriate comments, and respond to DMCA takedown requests
  - Received a mark of 99% on the assignment
- **The Enchanted Blades (Python/Pygame)**
  - Final group project for the SE2250 course, entailing the creation of an intricate RPG game
  - Engineered a wave-based combat system featuring animated adversaries and player attack sequences
  - Implemented object-oriented principles and extensively documented the project with UML diagrams
  - Collaborated seamlessly within a team of three programmers, utilizing Git for version control
  - Conducted a live presentation of the game and provided comprehensive explanations, along with inclusion of UML diagrams in the project's README.md on GitHub
  - Received a mark of 100% on the assignment

## EXPERIENCE

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- **Western University** London, ON  
*Web Developer* *May 2023 - Present*
  - Developed and maintained academic program websites, aligning them with professor-defined program goals
  - Enhanced user satisfaction and engagement by implementing responsive design principles, ensuring websites were accessible and user-friendly, prioritizing user experience
  - Optimized website performance, resulting in higher program enrollment and positive stakeholder feedback
- **STEM Minds** Aurora, ON  
*Camp Counsellor* *May 2022 - Aug 2022*
  - Instructed students in Scratch, Python, and Java programming, cultivating their problem-solving skills and computational thinking through engaging and interactive activities
  - Conducted interactive LEGO Robotics sessions, guiding students in the design and programming of robotic systems, promoting creativity and logical thinking
  - Assisted in organizing and supervising daily camp activities, ensuring a safe and inclusive learning environment, and fostering a sense of curiosity and exploration among campers

## PROGRAMMING SKILLS

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- **Languages:** Java, C++, JavaScript, Swift, SQL, TypeScript, Python, HTML, CSS
- **Technologies:** Git, AWS, React, NextJS, Angular, MongoDB, MySQL, JavaFX, SwiftUI, SwiftData