

# Daniel Di Giovanni

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## EDUCATION

- York University** Currently **3rd year** student; Graduating in **2025**  
*Bachelor of Engineering - Software Engineering* GPA: 3.8  
*Courses:* Data Structures, Advanced Object-Oriented Programming, Embedded Programming, Effective Engineering Communication

## WORK EXPERIENCE

- E-Commerce Advisor** June 2022 - October 2022  
*Digital Main Street* Full Time
  - Built a total of six ecommerce websites using Shopify, Square, and Bookmark.
  - Improved clients' websites by auditing, giving recommendations, and directly collaborating on the sites.
  - Assisted seven clients in accessing a \$2,400 micro-grant and helped them build spending plans for the grant.
  - Prepared resources, write-ups, and held meetings about ecommerce, digital marketing, and cybersecurity.
  - Learned SEO best practices, implemented SEO in ecommerce websites, and educated clients on SEO.
- Full Stack Developer** June 2021 - December 2021  
*Dwella Investing* Part Time
  - Built backend REST API from scratch with lead programmer using Node.js and ExpressJS.
  - Created schemas for the MongoDB database as specified by the system's needs.
  - Built frontend dashboard using React and the MUI library, and connected it to the backend.
  - Secured the API with a JWT-based authorization system.
  - Provided technical guidance during meetings to team members in less technical roles.

## PROJECTS

- TAB2XML**  April 2022  
*Java, JavaFX, Gradle, JUnit, Eclipse IDE*
  - Collaborated with four team members at York University to develop a large Java GUI using JavaFX.
  - Implemented concepts from music theory in Java to convert tablature to playable sheet music.
  - Systematically added features and fixed bugs according to the Gitflow workflow.
  - Used Java, Gradle, JUnit, and the Eclipse IDE to organize the project structure and facilitate testing.
  - Frequently held meetings to delegate work and resolve issues.
- Inspirational Webapp**  January 2022  
*Node.js, ExpressJS, MongoDB, React, MUI, JSONWebToken*
  - Built entire REST API backend with Node.js, the ExpressJS framework, and a MongoDB Atlas database.
  - Built entire frontend with React and the MUI library and connected the frontend to the backend.
  - Implemented JWT-based authorization system with capabilities to revoke tokens from specific users or all users.
  - Used SendGrid API to set up automatic email system for sending verification codes.
  - Thoroughly documented API endpoints, depolyed frontend to GitHub Pages, deployed backend to Heroku.
- Automated Plant Watering System**  May 2021  
*C++, Arduino*
  - Used Arduino with a moisture sensor, water pump, button, and OLED screen to build a physical plant watering system.
  - Wrote a C++ program on the Arduino to use the sensor and water pump to automatically water the plant when it is dry.
  - Utilized the Arduino's OLED screen to display information about the system's state.
- Sorting Algorithm Visualizer**  June 2020  
*Python, Tkinter*
  - Built a GUI with Python and Tkinter to animate sorting algorithms.
  - Implemented selection sort, insertion sort, bubble sort, and merge sort in Python.
  - Used Tkinter canvas and rectangles to animate sorting algorithms in real time.

## SKILLS SUMMARY

- Languages** Java, JavaScript, Node.js, Python, PHP, SQL, C, C++, Bash
- Frameworks** Spring Boot, ExpressJS, Flask, Mongoose, React, JUnit
- Tools** Git, MongoDB, SQLite, MySQL, AWS
- Concepts** OOP, REST API, Data Structures, Algorithms
- Soft Skills** Learning and Adaptability, Professional Communication, Report Writing, Workload Management