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

- **Software Engineering Co-op**   January 2023 - August 2023
  PointClickCare   *Full Time*
    - Strengthened a telemetry system by tracking events in Java and catching them through KQL queries on Azure.
    - Used Terraform to update and create Azure cloud resources in multiple development and production environments.
    - Added endpoints to a Java Spring API to deliver metrics from a database to a React dashboard.
    - Wrote SQL queries to calculate metrics about whether the system was meeting the team's SLA.
    - Wrote integration tests for an ETL database system, using Jenkins to schedule their runs.

- **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, SQL, JavaScript, Node.js, MongoDB, Python, PHP, Bash
- Frameworks   Spring Boot, React, ExpressJS, Flask, Mongoose
- DevOps   Azure, AWS, GCP, Terraform, Docker, Jenkins, Serverless Functions
- Concepts   OOP, REST API, Data Structures, Algorithms, Test-Driven Development
- Soft Skills   Learning and Adaptability, Professional Communication, Report Writing, Workload Management