Matthew McCulley

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TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java, C, VBA, HTML, CSS, SQL, XML, Bash
Technologies: React, Redux, Express.js, Node.js, Next.js, JUnit, Pandas, NumPy, Matplotlib
Developer Tools: Version Control, Docker, Postman, Azure DevOps, Ant, Eclipse, MongoDB, Linux, Unix

EXPERIENCE

Software Engineer Intern   Apr 2024 – Present
Oneness Education Foundation   *Remote*
- Developing a serverless job board that is placing 100+ immigrants into healthcare organizations using MongoDB Atlas, AWS, and Next.js.
- Showcased testimonials of 5+ candidates using Webflow.

Software Engineer Intern   Sep 2023 – Dec 2023
AutoTrader   *Toronto, On*
- Expedited the upload of data to B2C websites saving 1,000+ hours a year by creating and updating scripts using Python, Pandas, NumPy, and Matplotlib.
- Increased data accuracy by 50% through debugging and maintaining source code.
- Established data pipelines to continuously read and feed accurate and usable data for B2B services using Azure DevOps.
- Spearheaded a PowerPoint Automation Project that is set to save at least 400 hours a year pulling from multiple sources such as the Google Analytics API, BigQuery, and Redash.

Instructional Assistant   Sep 2022 – Aug 2023
Wilfrid Laurier University   *Waterloo, On*
- Instructional assistant for Windows Application Programming and Object-Oriented Programming.
- Guided 30+ students at a time in laboratories by clarifying topics or instructions and troubleshooting errors in Java, Eclipse, VBA, and Excel.
- Assisted professors in marking of laboratory assignment.

PROJECTS

MERN Stack Website | *React, Redux, MongoDB, ExpressJS, NodeJS*   Website | GitHub
- Developed a JWT authentication form using the MERN stack.
- Designed the backend API using Express.js to update profiles with a MongoDB database.
- Implemented a React frontend in JavaScript with Redux for state management.
- Hosted the project on GitHub and deployed it with Cyclic.

Sorting Visualizer | *React, Redux*   Website | GitHub
- Built a React/Redux application for visualising sorting algorithms.
- Implemented Merge Sort, Quick Sort, Heap Sort, and Bubble Sort.

Auto-Grader | *Java, JUnit, Ant, XML*   GitHub
- Developed a Java application to automatically grade assignments using Junit and Ant Build.
- Implemented a GUI for users to submit bulk assignment submissions and receive feedback and marks that could be uploaded to D2L Brightspace.

EDUCATION

Wilfrid Laurier University   Waterloo, ON
Honours Bachelor of Science in Computer Science, Co-op   *Expected Graduation: Aug 2025*
- GPA: 11.17/12.00
- Favourite Courses: Data Visualization, Intro to System Programming, Computer Networks.