

SOFTWARE ENGINEER

Windsor, Ontario, Canada

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Education

University of Windsor Windsor, Canada

B.C.S. IN COMPUTER SCIENCE HONOURS

Sep. 2018 - Aug. 2022

· 92% GPA, Dean's List and Entrance Scholarship

- NSERC Research Grant with Dr. Lu in **natural language processing**. Created a **Word2Vec** visualization tool.
- Worked on a distributed peer discovery protocol for a Mesh VPN written in Golang for my capstone project.

Experience

Tessonics Windsor, Canada

SOFTWARE ENGINEER June 2022 - Present

- Performed matrix and linear algebra in a C++ library for ultrasonic deconvolution
- Increased the speed of a matlab library by over 600% by translating to C++

Ground Effects Windsor, Canada

INFORMATION TECHNOLOGY CO-OP

June 2019 - August 2019

- Added new features and fixed bugs in a development server of a web application used by hundreds of Ground Effects employees
- Developed and edited PHP back-end code, and pure HTML/CSS/JS front-end code
- Had access and made changes to MySQL and SQL Server databases and created stored procedures to view data reports in SSRS
- Improved the speed of the VIN search engine by over 30% by using more optimized SQL queries
- Created automated workflows using Selenium and PyAutoGUI

University of Windsor - Ignite program

Windsor, Canada

January 2021 - Present

WEBSITE DEVELOPMENT RESEARCH STUDENT

- Maintained and added new features to a full-stack web project called vesicle viewer (located publicly at www.vesicleviewer.dmarquardt.ca)
- Created a new personal website for Dr. Drew Marquardt located at www.dmarquardt.ca. Written in Bootstrap for a fresh modern user experience.
- Implemented the foundation for a new project landing page for Dr. Marquardt's team, titled PCCans. Located at www.cans.dmarquardt.ca
- Mentored biology students for their Python programming projects

University of Windsor Windsor, Canada

TEACHING ASSISTANT September 2019 - Present

• taught the following courses while also taking a full-time course load: Theoretical Foundations in CS, Languages Grammars, Advanced C++, Key Concepts in CS, and Intro to Algorithms 2

Skills_

Programming Languages Python, C++, JavaScript, Golang, C#, Java, C

Front-end Web Dev React, Typescript, Vue

Back-end Web Dev Django, REST API, Flask, Caddy, PHP

Server Administration Linux cloud servers, AWS, Windows IIS, phpMyAdmin

DevOps GitHub Actions, Docker

Projects

UTable.net University Timetables

Windsor, Canada Jun. 2020 - Aug. 2021

TEAM LEADER

- Initially developed a proof-of-concept application for UTable.net, written in Flask and pure HTML/CSS/JS
- · Lead and organized a team to develop a more sophisticated website, written in React for front-end and Django REST API for back-end
- Created a **PostgreSQL** database for efficient secure storage of user information
- Fully featured login system for persistent user data
- Created automation scripts for scraping university timetable data for usage in the fuzzy search engine for selecting courses
- **CICD** integrated in multiple repositories in a private GitHub organization
- **Ubuntu Linux server** hosted on the cloud via DigitalOcean