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EDUCATION

Bachelor of Engineering Science: Software Engineering **September 2017 – April 2021**
Western University, London ON

- 90 % average (3.92 GPA) in a general engineering first year
- 89.75 % average (3.86 GPA) in a software engineering second year
- 89.8 % average (3.96 GPA) in the first semester of a software engineering third year

ACADEMIC PROJECTS

Music Review Application **December 2019**
Western University, London ON

- Created a music review site where users can submit reviews of songs
- Used the JavaScript framework Angular for the frontend, Node.js for the backend REST API, and MongoDB for the database
- Used Passport.js to create local authentication, passport-facebook-token for a third-party authentication strategy, and JWT's to protect routes and for authorization measures
- Worked on the project for approximately 100 hours and received a grade of 104% for implementing complex features requested

Personal Trainer Fitness Portal **September 2019 – December 2019**
Western University, London ON

- Worked in a group of three to develop a personal trainer fitness portal for client management
- Designed a relational database schema through ER modelling and normalization
- Used embedded JavaScript (ejs) for the frontend, Node.js for the backend REST API, and MySQL for the database

WORK EXPERIENCE

Junior Web Developer **May 2019 – August 2019**
RI Automation Limited, Strathroy ON

- Worked as part of a team on developing the traceability portion of a downtime analysis web application
- Gained frontend development experience using the JavaScript framework React as well as state management software library Redux
- Created modular and reusable React components using software design pattern principles
- Created APIs that queried a MySQL database using the Django Python framework

Head Counselor**March 2019 – August 2019**

Bit by Bit Computer Science Camp at Western University, London ON

- Took on an administrative role at the camp, which included interviewing other counselors and volunteers, ordering T-Shirts, creating schedules, and preparing for the camp
- Created engaging lessons for the campers in HTML, CSS, JavaScript, Unity, C#, Python, Lego NXT Robotics, Scratch, Minecraft Code Connection (Programmed in JavaScript or Scratch equivalent), and Adobe Photoshop
- Worked with Western Science Technology Services (STS) to reimage computer labs, reset passwords, and get campers' confidential information

COMPUTER/TECHNICAL SKILLS**Web Development Technologies:**

Frontend - HTML, XML, CSS, JavaScript, Embedded JavaScript (ejs), React, Redux, Angular

Backend - Node.js, Express, Django

Database - MySQL, MongoDB

Version Control - GitHub, GitLab (Scrum Development Framework)

Desktop Development:

Electron (with React-Redux), JavaFX

Game Development:

Unity, C#, Blender

General Purpose Programming:

C++, C (for Arduino), Java, Python

AWARDS/SCHOLARSHIPS**Post-Secondary Scholarships:**

Ontario Professional Engineers Foundation Entrance Scholarship

October 2017

UWO Entrance Scholarship

September 2017

Most Significant Secondary School Awards:

World War I Memorial Award (Highest Combined Average)

October 2016-2017

Meridian Lightweight Technologies Award (Physics)

October 2017

Roger Kennedy Memorial Award (Chemistry)

October 2017

Senior Mathematics Award

October 2017

Junior Mathematics Award

October 2015

EXTRACURRICULAR ACTIVITIES**Western Engineering Mars Rover Club****September 2019 – April 2020**

Western University, London ON

- Worked with a vision and autonomous software team using the agile development framework Scrum within GitLab
- Developed the rover desktop control application with Electron, using React and Redux as well
- Sent drive commands from the remote to the rover, updating the position on the configurable map as well as receiving live video streaming from the rover