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EDUCATION

Software Engineering
Bachelor of Engineering Science (BESc)
Western University
Ontario, Canada

Dean's List (2019, 2020) - GPA 3.75

Sept 2018 - **April 2022**

Involvement:
Western Investment Club, HackWestern, Western Agriculture Technology Club

SKILLS

Languages:
JavaScript, Python, SQL, Java, HTML, CSS, C#, C++

Web Technologies:
React, Node.js, Redux, MongoDB, Express, Flask, Google Cloud Platform / Firebase, AWS, Socket.io

Data Science/ML:
TensorFlow, NumPy, Keras, Pandas, Matplotlib, BeautifulSoup, Selenium

Tools/Other:
Git, Postman, Excel, PowerPoint, Unity, Agile

COURSEWORK

- Algorithms & Data Structures
- Software Design
- Software Project Management
- Human-Computer Interactions
- Database Management
- Machine Learning (Stanford Coursera)

INTERESTS

Books • Podcasts • Architecture • Video Production • Board/Video Games • Entrepreneurship • Cycling • using Notion.so

EXPERIENCE

Product Management Intern | *JavaScript, React, SQL, Python*
AutoOptimize.ai — *Automated Website-A/B Testing Platform*   Apr 2020 – Aug 2020
- Configured **Natural Language Processing API (GPT-3)** to generate headlines, product descriptions, etc for online businesses, saving users an average of 1 hour to create high quality website variants
- Created and monitored real-time **SQL** dashboard visualizations (charts, graphs) tracking key metrics on 500+ launch-users to improve AutoOptimize's data-driven decision making
- Developed "Learning Center" for AutoOptimize's website with **React**, and wrote 20+ user guides and documentation in order to easily educate new users on how to use AutoOptimize's new Website-A/B Testing tool

Software Developer Intern | *Python, TensorFlow, BeautifulSoup, Selenium*
Hobu — *Home Services Marketplace*   May 2019 – Aug 2019
- Worked alongside CTO to build **Machine Learning** model along with **REST API** to be used by Hobu app (e.g. home service recommendations based on daily weather data) - contributing to product research and development
- Developed internal data-engineering tools with **Python** that automated several job functions for Marketing and Operations departments (e.g. sentiment and keyword analysis in home service online communities) - saving Hobu 20 hours/week on manual tasks
- Collaborated with Marketing team on market/user research by utilizing aforementioned data-engineering tools, identifying key consumer segments and their pain points

PROJECTS

Debate Mapper | *React, Redux, Firebase, Node.js, Express, Socket.io* 🐙
- Designing and developing platform for organized one-on-one debates, keeping track of arguments and facts with a **tree-based UI** - including advanced conversation analytics
- **Video chat** feature to supplement "debate flow" implemented with **WebRTC**

Real Chat | *React, Express, Socket.io, JavaScript* 🐙🌐
- Developed chat app that displays **letters being typed in real-time** to all users (replacing "user is typing…" indicator)
- Learned how to render live keystrokes with web-sockets.

AI Pong | *Python, TensorFlow, JavaScript* 🐙
- Developed **Machine Learning** model to play Pong.
- Trained model using a Convolutional Neural Network with data from 100,000 pong matches

Social App (Twitter Clone) | *React, Redux, Node.js, Express, Firebase* 🐙🌐
- Built full-stack **web-based** social media application fully featured with user authentication, user profiles, posting/deleting posts, commenting/liking posts and notifications
- Stored data in NoSQL database (Google Cloud Firestore)

LEADERSHIP

Vice President of Education | Western Founders Network   2019 - Present
- Hosted **technology and business-related workshops/project walkthroughs** (e.g. Intro to AI with Computer Vision) with average turnout of 70 - 80 students
- Will be recruiting and **leading team of 6 students** to develop educational workshops, as well as supplemental video and text-based versions to educate a wider audience
- Building online Slack community to facilitate **open-source collaboration** on workshop-projects