Eli-Henry Dykhne

https://github.com/HenryDykhne | https://edykhne-coop-exp.herokuapp.com/ | 647-880-5359 | edykhne@uoguelph.ca

Skills

Programming Languages: Java, C, Python, Javascript, Typescript
Web: Node.js, Express, HTML, CSS
Source Control/Teamwork: Github, Gitlab, Bitbucket, Sourcetree, Confluence, Jira
Technologies: Unix, Windows, SQL, JUnit, Google Cloud Platform, Firebase, Dialogflow
Machine Learning/Statistics Tools: R, Scikit-Learn, Pytorch, Pandas, Azure ML
Spoken Languages: English, Russian

Work Experience

University of Guelph, Toronto — Undergraduate Research Assistant **June 2020 - August 2020**

- Performed a systematic literature review on the use of machine vision in the field of livestock monitoring, involving the careful selection, reading, and summarization of over 35 recent scientific papers on the subject.
- Wrote a review paper presenting the current state of the art in the field of livestock monitoring with machine vision and identified key challenges and directions for future research.

Architech, Toronto — Software Engineer Co-op **September 2019 - December 2019**

- Used Google Cloud Platform Dialogflow and Firebase to implement a voice user interface in Javascript for the Google Home as well as phone Assistant.
- Created proof of concept for an event vote visualization website using Node.js, Express, HTML, CSS, and Chart.js. Visualizations updated dynamically through a connection to a Postgres database.
- Managed project branches utilizing Bitbucket and Sourcetree for version control and worked with Confluence and Jira in order to enable collaboration and communication in the team.

Discovery Academy, Richmond Hill — Mathematics Teacher **July 2018 - August 2018 and July 2019 - August 2019**

- Taught calculus to a class of 10 students at the grade 12 academic level.
- Designed, assigned, and evaluated coursework.

Education

University of Guelph **September 2017 - Present**
Bachelor of Computing, Computer Science Honors (Co-op), Minor in Statistics
4.0 GPA

Projects

VC Links Investor Connection Website (2020) — Hackathon
Website built to connect investors with startups including an SQL backend for listing storage and full frontend for creation and browsing of listings with a fully implemented tag system. Visible on my GitHub under AlphaHacks2020. Hackathon winner.
Heart Attack Prediction (2019) — Personal
Used Scikit-Learn and Pandas to predict heart attacks from open-source medical study data using support vector machines.
ICalendar Manager (2019)— Academic
ICalendar management website with full C based backend and Node.js frontend.
Genetic Game of Life (2018) — Personal
An evolutionary algorithm for evolving Conway's Game of Life creatures to approach and maintain a specified size.
Course Planner (2018) — Academic
Course planner system that allows students to make and modify a study plan to track the completion of their degree, developed in Java.