

## **Eli Henry Dykhne**

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<https://github.com/HenryDykhne>

<https://edykhne-coop-exp.herokuapp.com/>

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### **Skills:**

- Experience with Node.js, HTML and CSS from constructing frontend for iCalendar creation and management webpage.
  - Proficiency in Java (including JUnit testing) and C displayed in numerous projects such as an evolution program for creatures in Conway's Game of Life.
  - Skilled with Azure ML services in creating CSV column tagging models for accounting documents.
  - Experience with R, Scikit-learn and Pytorch for creating machine learning models on heart attack data.
  - Skilled with Google Cloud Platform and Firebase in creating cloud functions using serverless databases.
  - Experience with Git version control through GitHub and Bitbucket for my own and in school projects.
  - Comfortable with Linux and Windows due to extensive use in secondary and post-secondary projects.
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### **Education:**

**Bachelor of Computing, Computer Science Honors (Co-op)**      **September 2017 - Present**  
University of Guelph, ON

### **Relevant Courses:**

- Software Systems Development and Integration: Course project consists of creating a C backend and node.js based frontend for an ICalendar management webpage.
  - Analysis and design of computer algorithms: Important projects include implementation of "Quickhull" and "Optimal Binary Search Trees" by way of dynamic programming, as well as design and analysis of own competing algorithms.
  - Object oriented programming: Key projects include course management system with full GUI built in Java.
  - Discrete Structures 1 and 2: Excelled in proofs, combinatorics, elementary graph theory and set theory.
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### **Experience:**

#### **Projects:**

- Course planner system that allows students to make and modify a study plan to track the completion of their degree in Java.
- ICalendar management website with full C based backend and Node.js frontend.
- Evolutionary algorithm for evolving Conway's Game of Life creatures to stay small while staying alive.
- Console calculator that takes a fully parenthesized expression with variables, turns it into a tree and then gives options of printing out the tree, printing the traversal of the tree, setting the values of the variables or calculating the expression.

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### **Software Engineer Co-op**

**September 2019 - December 2019**

Architech, Toronto

- Implemented voice user interface for google home app.
- Set up cloud functions to update database.
- Created proof of concept for website with dynamic visualizations and connection to Postgres database.

### **Math Teacher**

**July 2018 - August 2018 and July 2019 - August 2019**

Discovery Academy, Richmond Hill

- Taught calculus to class of 10 students at the grade 12 academic level.
- Prepared and provided feedback for tests and assignments.
- Developed custom study plans with struggling students to increase their grades and understanding of the material.

### **IT support**

**May 2018 - June 2018**

Michael Garron Hospital, East York

- Installed windows on approximately 10 computers and wipe hard drives of approximately 20 computers.
- Troubleshoot issues such as slow functioning software and non-functioning computer hardware.
- Wrote shell script to confirm guest wifi functionality and alert IT which lead to smoother operation of hospital wifi.

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### **Certifications:**

- G certified (drivers licence).
  - Certified in Standard First Aid CPR/AED level C.
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