

Eli-Henry Dykhne

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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, Kubernetes, JUnit, Google Cloud Platform, Firebase, Dialogflow, Jenkins, aspectJ

Machine Learning/Statistics Tools: R, Scikit-Learn, Pytorch, Pandas, Azure ML

Spoken Languages: English, Russian

Work Experience

NCR Corporation, Toronto — Software Developer

January 2021 - September 2021

- ❖ Integrated metrics monitoring into enterprise API's with aspectJ and Graphana running in Kubernetes containers.
- ❖ Performed the continued integration of multiple transaction processing cores using Java.
- ❖ Created unit tests to verify correctness of code and acted as build master to maintain CI pipeline.

University of Guelph, Guelph — 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.
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Education

University of Guelph

September 2017 - Present

Bachelor of Computing, Computer Science Honors (Co-op), Minor in Statistics, 4.0 GPA

Projects

S5 Shell (2021) — Academic

Facilitates operation of Amazon's S3 cloud storage solution from your terminal. Supports bucket and object management between cloud storage and local filesystem.

Generalized Constraint Problem Solver (2021) — Academic

The program finds a solution to a binary constraint network if one exists. An example is graph coloring or the N-Queens problem.

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.

Stock News (2020) — Academic / Personal

This program takes in stock data from an API, and displays associated news articles from another API. It includes support for marking trusted and untrusted news sources. The code is extensible and supports multiple levels of access for supervisors.

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.