

# MAX ERENBURG

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<https://github.com/maxerenberg/>

<http://maxerenberg.me>

## SKILLS

- Python (pandas, numpy, matplotlib), C
- HTML, CSS, JavaScript (D3.js), PHP
- SQL (SQL Server, DB2, MySQL, Postgres)
- Bash scripting in Unix and Windows

## HACKATHONS AND SIDE PROJECTS

EngHacks, May 2017

- Created a website, CoinWatch, which used **web scraping** and **text sentiment analysis** in Python to determine whether an initial coin offering (ICO) was fraudulent

FEC campaign finance data project, Jul. 2018

- Used the **pandas** library in Python to analyze U.S. political campaign donation data
- Created a choropleth map in **matplotlib** showing the distribution of Democrat and Republican donors in each state

Multiplayer online chess game, Sep. 2018

- Created a multiplayer game with **PHP** with the data for the game and players stored in PostgreSQL
- Used **AJAX** so the clients query the server to update the state of the game

## EXPERIENCE

Research and Analysis Student | Ontario Securities Commission

MAY 2018 – AUG. 2018

- Used **regular expressions** in Python to parse through data fields queried through SQL
- Wrote a program to identify individuals using **sequence matching** and decision trees
- Implemented a **graph-based** approach to group entities into **clusters** based on multiple factors
- Presented results to colleagues and supervisor to improve algorithm

## EDUCATION

Candidate for Bachelor of Computer Science | University of Waterloo

SEP. 2017 – CURRENT

- Completed: Calculus I and II, Linear Algebra I, Algorithm Design and Data Abstraction