

JAMES CHEN

Software Engineering

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EXPERIENCE

Data Engineer

Raven Telemetry

📅 April 2020 – August 2020

📍 Ottawa, Ontario

- Wrote Python scripts to automate monthly and weekly report generation, drastically reducing man hours needed.
- Used Pandas to process data from over 50 customers to generate performance metrics
- Automated report generation process by deploying cronjobs to Kubernetes

Web Developer

Environment and Climate Change Canada

📅 September 2019 – December 2020

📍 Toronto, Ontario

- Used the Web Experience Toolkit to develop various web pages for the Canadian Climate Data and Scenarios site
- Wrote scripts using Perl, PHP and JavaScript to create download interfaces for easy access to climate data sets
- Performed regular maintenance including fixing large data sets, using JavaScript to write scripts to efficiently fix errors

PROJECTS

Drively

IoT-based smart vehicle control | Arduino, Python, Firebase | Hack the North 2019

- Built a system and implemented an algorithm using Arduino to detect drunk drivers using air quality sensor and fingerprint scanner
- Wrote a Python script to send air quality and driver data to Firebase in real time
- Designed front-end using HTML-CSS-JS which used Firebase to display live driver status

BWF Ranking Viewer

BWF World Tour ranking web app | Python, Flask, BeautifulSoup4

- Developed an SSR app using Python and Flask to display badminton world rankings
- Wrote a script which uses BeautifulSoup4 to fetch the top 100 players from BWF website for all categories (singles, doubles, etc.)
- Used Flask to create a back end which processes user's category selection and renders web page accordingly

LoL Stats

League of Legends Performance Evaluation | Python, Riot Games API

- Developed an app that uses the Riot Games API to evaluate a user's recent LoL stats
- Designed an algorithm that compares a user's stats to those of similarly ranked players
- Implemented search filters, allowing users to choose which games they want evaluated, as well as custom tips to give users tangible advice on how to improve

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Personal Website | HTML, CSS, JavaScript

- Used HTML, CSS, Bootstrap and JavaScript to create a modern-looking personal website
- Independently studied front end development via resources such as LinkedIn Learning
- Implemented many features including modal images, carousels and various animations

SKILLS

Languages

Python Java C++
C JavaScript

Frameworks & Libraries

React Pandas Flask
Bootstrap BeautifulSoup
jQuery

Tools

Git HTML CSS
Linux Firebase

EDUCATION

Bachelor's of Computer Science, Honours Co-op

Carleton University

📅 Sept 2020 – Present

📍 Ottawa, On

Current GPA: 12.0

Bachelor's of Mechanical Engineering, Honours Co-op

University of Waterloo

📅 Sept 2018 – Apr 2020

📍 Waterloo, On

Ending GPA: 84.74

Awards & Distinctions

- President's Scholarship
- Class Ranking: 11/94

INTERESTS

- Badminton
- Fitness/Powerlifting
- Violin