

Felix He

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SKILLS

Languages: Java, JavaScript, HTML/CSS, Scheme, C++, C, R

Tools: React.js, Node.js, Firebase, Bootstrap, SQLite, Git, Bash, L^AT_EX

PROJECTS

Competitive Programming - Java, C++

- Ranked **top 150** with over **350 problems** solved on the DMOJ contest platform, Canada's largest online judge for competitive programming with over **50,000 users**.
- Placed in the **top 30** in more than 5 Canadian contests hosted on the DMOJ contest platform.
- Implemented many different **data structures** and **algorithms**, including Balanced Binary Search Trees, Segment Trees, BIT, Kruskal's, Dijkstra's, etc.

ResqUTech - JavaScript, Firebase, HTML/CSS

- Used **Bootstrap**, **JavaScript/jQuery** and **HTML/CSS** to create a website, connected to a **Firebase** database to allow victims to check in with their current location.
- Used the **Google Maps API** to show the locations of the victims that were able to check in, allowing others to see where help is required and the urgency of the situation.

PDFEdit - Python

- Developed a PDFEditor using **TKinter** to create the user **GUI**.
- Incorporated **PyPDF2** and **DOCX** libraries to simplify conversions of PDF to docx. and docx. to PDF.

Earth Wallpapers - Java

- Created a script to download the top 7-10 images on the Earth Wallpaper subreddit using **Java Swing**, **NET**, and **AWT**.
- Utilized objects such as a **HashSet**, **URLConnection**, and **AttributeSet** to retrieve the HTML data from the page and ensure the uniqueness of images.

WORK EXPERIENCE

Splinterlands

Philadelphia, PA, United States of America

Full Stack Developer - Node.js, AJAX/jQuery, DigitalOcean, LAMP

June 2020 - August 2020

- Built a Blockchain Trading Card Market using **Node.js**, **AJAX/jQuery** and **HTML/CSS** to allow Splinterlands players to buy and sell cards, and view various statistics and market history.
- Hosted and maintained the SplintX website using **Agile Methodologies** on a **DigitalOcean Droplet** using a **LAMP** stack.

Triway Education

Richmond Hill, ON, Canada

Math & CS Instructor

May 2017 - August 2018

- Taught various **data structures** and **algorithms** such as **BFS** and **recursion** to help prepare over **60 students** in 3 classes for the **Canadian Computing Competition**.
- Held **200+** lessons for classes of 20-30, leading to **more than 10 students placing in the top 2%** of **Canadian Computing Competition** Junior competitors.

ACADEMICS & AWARDS

University of Waterloo

Waterloo, ON, Canada

Candidate for Bachelor of Computer Science - GPA: 3.69

Sept 2019 - May 2024

- **Euclid Mathematics Contest - Certificate of Distinction**
Ranked in the **top 8%** of **22169** contestants.
- **Canadian Computing Competition - Certificate of Distinction**
Ranked in the **top 8%** of **2719** contestants.

May 2019

March 2019

Relevant Courses: Designing Functional Programs (Advanced Level), Elementary Algorithm Design and Data Abstraction (Advanced Level)