

Frank Chen

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Education

University of Waterloo

Bachelor's of Software Engineering Candidate, (92% Average, 3.97 GPA)

Sept. 2019 – Present

Waterloo, ON

Experience

Software Developer

Curtiss-Wright Defense Solutions

Jan. 2021 – Apr. 2021

Ottawa, ON

- Eliminated manual testing for a network switch by implementing components of a top level **TestStand framework** that completely automates testing to be run overnight remotely
- Used **Selenium** and **Python** to interact with web interfaces and automatically verify data
- Facilitated transfer of knowledge for other automation projects by creating Confluence tutorial pages on new tools and components implemented
- Helped prototype a homegrown alternative top level testing framework for single board computers using **Python** in order to reduce the stress on TestStand licenses

Teaching Contractor

Frank's Math and CS

May 2020 – Present

Ottawa, ON

- Created custom 'home school' experiences in math and CS for classes of 4-8 high school students following International Baccalaureate outlines
- Holistic product earns **200%** when compared to private tutors with similar experience and education
- Negotiated contract yields job security and creative freedom in teaching for independent tutors, within the predetermined curriculum outline
- **100% returning clients** by running effective classes, assignments, virtual tests and exams
- Maintained virtual classrooms on Discord and parent-teacher forums on WeChat

Online Learning Assistant

University of Waterloo

May 2020 – Aug. 2020

Waterloo, ON

- Managed communications with 600+ students to ensure mental and academic wellness during remote learning using automated emails offering regular phone or video appointments with an engagement rate around 4%
- Organized and marketed student life activities

Projects

Book Frank | *Mongo, Express, Angular, Material*

June 2020, September 2020

- Created a web application to manage student wellness appointments and cancellations
- Extended to support math students request 1-on-1 additional help and parent meetings

Fire Identification Rover | *Arduino Uno R3, Java*

Oct. 2019 - Dec. 2019

- Used Arduino Uno R3 to control a mobile camera module navigate a programmable path
- Minimized implementation complexity by researching compatibility of Java classes with existing image processing equations in academia

Technical Skills

Languages: C++, Python, Java, Javascript, C

Tools/Frameworks: Selenium, TestStand, Mongo, Express, Angular, GitKraken, Bitbucket