

Skills

Languages: Python, C++, Java, HTML, CSS, JavaScript, Lua, Bash

Frameworks: FastAPI, PyQt5, Selenium, BeautifulSoup, matplotlib, ncurses, cURL, Cheetah, PyTest, Flask, OOP

Tools/Workflow: Git, GitHub, g++, gdb, Google Firebase, Linux, Google Cloud (GCP), ffmpeg, Docker, Jira, Confluence

Experience

University Health Network (UHN) DATA Team, Software Developer

May – Sept. 2023
Toronto, ON

- Removed ~200 lines of redundant code for API endpoints in **Django** by combining views into Mixins, making codebase more modular
- Added a suite of 15+ missing unit/integration tests to data ingest software using **PyTest**
- Created authenticated **Docker** microservice and REST API for clinical data ingest using **Flask**
- Wrote scripts to verify and debug **Docker** CI/CD stack deployment in **Bash** including automatically filtered error logs, accelerating new installations

Vaccine Hunters Canada, Software Developer

Apr. 2021 - Mar. 2022
Remote

- One of the recipients of the **Metroland 2021 Urban Hero Award** and **UofT Pillars of the Pandemic Award** for work with Vaccine Hunters
- **VaxBot**
 - Provided a chatroom interface for locating COVID-19 vaccines, used by up to **400 clients daily**, by leveraging Discord and Vaccine Ontario APIs in **Python**
 - Worked with and repaired Vaccine Ontario's **Google Firebase** database for more reliable data
- **Find Your Immunization (FYI)**
 - Created **REST API** template with FastAPI in Python to allow for online access to COVID-19 vaccination appointment database later used by **over 1 million clients**
 - Managed initial development team of and held development meetings with 10-15 project members

Projects

BetterDubs [*HackHarvard 2022*]: Desktop platform to automatically generate movie dubs

- Designed & developed full PyQt5 **front-end UI** for creating dubbed videos
- Assisted server-side development via integrating **machine learning** model Wav2Lip

ProgrammerHumor Hackathon: Co-hosted humorously themed “Overengineering” Hackathon

- Managed hosting of official TypeScript website and updated with new information
- Through outreach and promotion, obtained **\$1000+** in JetBrains sponsorships and recruited **50+ competitors**

Education

University of Waterloo

Sept. 2022 – May 2027
Waterloo, ON

Candidate for Honours Bachelor of Computer Science/Digital Hardware Option (BCS)

- GPA: 3.6/4.0 (83%)
- Relevant Courses: Designing Functional Programs (CS 135), Elementary Algorithm Design and Data Abstraction (**Advanced Level**) (CS 146, **93% Grade**)