

# Simon Wu

437-265-7287 | [simon.wu1@uwaterloo.ca](mailto:simon.wu1@uwaterloo.ca) | [linkedin.com/in/shangmingwu](https://www.linkedin.com/in/shangmingwu) | [github.com/shangmingwu](https://github.com/shangmingwu) | [simonwu.dev](https://simonwu.dev)

## EDUCATION

### University of Waterloo

*Bachelor of Computer Science*

Waterloo, ON

*Sept. 2022 – May 2027*

### The Woodlands School

*OSSD - Enhanced Learning Program*

Mississauga, ON

*Sept. 2019 – June 2022*

## EXPERIENCE

### Web Developer

*Prospective Medical Professionals - PuMP*

June 2021 – Present

*Remote - Toronto, ON*

- Developed responsive webpages and components using TypeScript for a Next.js site with 10000+ interactions
- Maintained database and search using React and PostgreSQL to serve volunteer and internship opportunities
- Collaborated with design team to make changes and improvements to product, from wireframes to final site

### Cancer Biology Research Assistant

*STEM&Leaf Corps (Texas Tech University)*

September 2021 – August 2022

*Remote - Lubbock, TX*

- Explored the effects of amino acids on cancer treatment as path of Introduction to Cancer Biology group
- Performed programmatic literature search using nltk, pandas
- Contributed significantly to 34-page literature review on amino acids and cancer immunotherapy treatments
- Presented on cancer biology topics to new group members during term transition

### Data Analyst

*Community Advocates for Just and Moral Governance*

June 2020 – January 2021

*Remote - San Diego, CA*

- Used Tesseract OCR and Tabula to enhance the processing of SDPD racial arrest data
- Efforts contributed to successful lawsuit filed against SDPD and City of San Diego
- Scraped online video and other content for record-keeping
- Consulted on web design and outreach tactics for online charity campaign

## PROJECTS

### PuMP website | TypeScript, React, Next.js, CSS, PostgreSQL, Prisma

June 2021 – Present

- Built responsive pages and components for Next.js site in TypeScript to design specifications
- Populated, maintained and interacted with PostgreSQL database with Prisma ORM
- 10000+ online interactions in first year
- Collaborated with design team, web developers to make changes and improvements

### Self-hosted services | Shell, Python, HTML, CSS, Docker

November 2019 – Present

- Self-hosted a variety of services and utilities using hosting providers, bare-metal equipment
- Hosted and troubleshooted private cloud storage, static sites, personal libraries
- Administrated Windows, Linux systems and Docker containers

### Highmark | JavaScript, HTML/CSS, Jekyll, Showdown

October 2020 – November 2020

- Developed a static web application in pure JavaScript and HTML/CSS, self-hosted on a VPS
- Rendered automatic previews and exported pages using Showdown
- Implemented saving to/loading from disk

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS, Racket/Scheme

**Frameworks:** React, Node.js, Gradle, Next.js, Prisma

**Developer Tools:** Git, Visual Studio Code, Eclipse

**Libraries:** pandas, NumPy