Simon Wu

437-265-7287 | simon.wu1@uwaterloo.ca | linkedin.com/in/shangmingwu | github.com/noisya55616 | simonwu.tech

EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Computer Science   *Sept. 2022 – May 2027*

The Woodlands School   Mississauga, ON
OSSD - Enhanced Learning Program   *Sept. 2022 – May 2027*

EXPERIENCE

Web Developer   June 2021 – Present
Prospective Medical Professionals - PuMP   *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   September 2021 – August 2022
STEM&Leaf Corps (Texas Tech University)   *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   June 2020 – January 2021
Community Advocates for Just and Moral Governance   *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