

# Bill Wang

647-818-7599 | [billwang7599@gmail.com](mailto:billwang7599@gmail.com) | [linkedin.com/in/bw7599](https://www.linkedin.com/in/bw7599) | [github.com/billwang7599](https://github.com/billwang7599)

## EDUCATION

---

### University of Waterloo

Sept. 2022 – April 2027

*Bachelor of Software Engineering*

*Waterloo, ON*

- **Courses:** Software Engineering Principles, Statistics for Software Engineering, Digital Circuits and Systems, Intro to Database Management, Data Structures and Data Management, Foundations of Sequential Programs

## EXPERIENCE

---

### Software Engineer Intern

Feb. 2024 – May 2024

*Huawei Technologies*

*Vancouver, BC*

- Enhanced encapsulation and improved compilation time by 30% by refactoring the C++ polynomial solver SDK to use pImpl and Command Pattern styles
- Optimized system performance by **identifying over 20,000 inactive resources using shell scripts**, parsing them with **Python and Pandas**, and removing them to allocate resources for other processes
- Accelerated Jenkins pipeline speed by 10x by modifying and refactoring the Groovy script
- Ensured all future release packages included necessary library files and functioned correctly by developing comprehensive Jenkins scripts that also executed SLURM job scripts for thorough validation

### Software Developer

May 2023 – Aug. 2023

*AdaptivePulse*

*Waterloo, ON*

- Engineered a full-stack application with an integrated AI chatbot to facilitate bids and tenders, utilizing Streamlit for the front-end, and Amazon Redshift, FastAPI, and Docker for back-end processing and queries
- Developed a Python Q&A chatbot using **LangChain and OpenAI's LLM**, with a **vector database (Pinecone)** referencing over **3,000 documents**, achieving a **95% accuracy rate** in responses
- Automated the acquisition, storage, and retrieval of 500K+ documents from RFP platforms using Selenium, Requests, and Amazon S3

## PROJECTS

---

### Server Hosting | *Linux, Cron, SSH, FRP*

- Hosted gaming servers for dozens of players using a Linux instance on Cloudstack VM
- Utilized FRP for reverse-proxy connections, bypassing firewalls by routing through two different servers
- Automated backups using cron to run a Python script, periodically SSH copying folders to the main server

### Schedulii | *React, TailwindCSS, Typescript, Nx, Docker, Rust*

- Collaborated to develop an app facilitating student meetups with React.js and TailwindCSS for the front-end, and Rust for backend requests
- Enhanced app usability and UI/UX by developing a monthly calendar with React.js, TSX, and TailwindCSS

### Her Code Camp | *Python, Rotman API*

- Placed 2nd overall by spearheading the team and organizing meetings to develop an efficient trading algorithm
- Generated \$10,000+ of profit in a simulated environment by coding the algorithm with Python and Rotman API

### Canada FBLA | *NodeJS, Express.js, jQuery*

- Placed 10th nationally by developing a website that presents random questions to users, utilizing Node.js, Express.js, and jQuery
- Created a dynamic Express API for handling requests and manipulating a JSON file for efficient storage and retrieval

## TECHNICAL SKILLS

---

**Languages:** Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Assembly

**Frameworks:** React, Node.js, FastAPI, Serverless, Express.js, LangChain, Streamlit

**Other:** Git, GitLab, Docker, AWS (S3, EC2, Redshift, Lambda, Boto3), Linux, Vim, Figma, Jira, Jenkins, BeautifulSoup, ScrapingBee, Selenium, Pinecone