Bill Wang

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EDUCATION

University of Waterloo — Waterloo, ON
Bachelor of Software Engineering — *Sept. 2022 – April 2027*
- **Courses:** Database Management, Software Engineering Principles, Data Structures and Data Management

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

EXPERIENCE

Software Engineer Intern — Feb. 2024 – May 2024
Huawei Technologies — *Vancouver, BC*
- Improved Jenkins speed by 10x by modifying the stages on the Groovy script, optimizing pipeline processes
- Achieved 100% client satisfaction by developing a shell script to automatically trigger Jenkins jobs during pipeline build phase, ensuring the release package's integrity and operability
- Optimized system performance by identifying common inactive resources using shell script to get over 20,000 entries, parsing it with Python & Pandas, then presenting to it senior engineers
- Augmented code security by refactoring the polynomial solver SDK to utilize **C++ techniques such as PImpl and command pattern styles**, hiding confidential interfaces from competitors
- Enhanced useability of the solver SDK by developing an efficient removal function using C++ and respective test cases using GoogleTest, providing greater modifiability to data objects

Software Developer — May 2023 – Aug. 2023
AdaptivePulse — *Waterloo, ON*
- Engineered a fullstack application which facilitates bid proposals using an AI chatbot and Amazon SDK according to client's specifications
- Developed a Python Q&A chat-bot using LangChain and OpenAI's LLM, referencing a vector database (Pinecone) with over 3,000 data points curated from relevant PDF files for quick and efficient queries
- Enabled acquiring, storing, and retrieving of 500K+ bids and documents from RFP platforms by developing Selenium and Requests crawlers, storing data in Amazon S3, then transferring it to Redshift for queries
- Designed and implemented RESTful APIs using FastAPI and Docker, enabling seamless interaction and data exchange between the backend and other server systems

PROJECTS

Server Hosting | *Linux, Cron, SSH, FRP*
- Hosted gaming servers supporting dozens of players using a Linux instance on Cloudstack VM
- Routed connection through 2 different servers by utilizing FRP to reverse-proxy connections, bypassing firewalls
- Enabled backups by using cron to run a Python script which periodically SSH copies folders to main server

Schedulii | *React, TailwindCSS, Typescript, Nx, Docker, Rust*
- Collaborated with friends to engineer an app facilitating students' meetups by utilizing React.js and TailwindCSS for front-end, and Rust to handle back-end requests
- Developed a monthly calendar using React.js, TSX, and TailwindCSS enhancing usability and UI/UX of the app

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 in the FBLA programming division by using NodeJS, Express.js, and jQuery to create a website in which it presents random questions to clients about the FBLA
- Developed a dynamic Express API to handle requests and manipulate a JSON file for efficient storage and retrieval