ALLAN WANG

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EDUCATION

Carleton University Feb 2024

Bachelor of Computer Science, Co-op Program *Ottawa, ON*

- **3.90 GPA**, Dean's Honour Roll, J. Lorne Gray Scholarship
- **Coursework:** Web Development (JavaScript), Object-Oriented Software Engineering (C++), Data Structures & Algorithms (Java), Systems Programming (C), Databases (SQL), Statistics & Data Models
- **Extra-Curricular:** Carleton Computer Science Society, cuHacking, Carleton Web Development Club, GDSC at Carleton

EXPERIENCE

Nokia Sept 2023 – Dec 2023

Software Developer Intern *Ottawa, ON*

- Built frontend components and features using **React**, **TypeScript** and **Apollo Client** to enhance user experience and interactivity
- Improved backend services by designing object-oriented TypeScript classes to leverage **Microsoft Azure APIs** (Sentinels, Log Analytics) to handle data fetching and storage with **GraphQL** and **MongoDB**
- Developed **50+** fully automated frontend and backend integration tests using **Python** and **Robot Framework**, reducing pipeline times on integration test jobs by **8%**

Nokia May 2023 – Aug 2023

Software Engineer Intern *Ottawa, ON*

- Developed a functional and modular **Typescript** library with **Jest** unit testing and documentation to perform telecom encoding and decoding services in accordance to universal mobile telecom standards
- Designed functional components with **Angular** and **TypeScript** to support rich user features such as inputs and reactive forms
- Increased security protocols by strengthening **Nginx** configurations and enabling **HSTS** to limit application vulnerabilities

Nokia Jan 2023 – Apr 2023

Software Developer Intern *Ottawa, ON*

- Implemented full stack solutions using **React, TypeScript** and **GraphQL** to support the continuous development of Netguard Cybersecurity Dome, Nokia's first SaaS based cybersecurity application
- Refactored and resolved **40** code smells and critical vulnerabilities, leading to increased performance and security enhancements
- Streamlined an internal automation process by designing test suites in **Python** and **Robot Framework** to reduce manual testing

Telesat May 2022 – Dec 2022

Software Developer Intern *Ottawa, ON*

- Architected a prototype full stack application using **JavaScript (Node.js, Express), Pug** and **Webex API** to facilitate call center operations between satellite agents and customers, reducing queue times by **15%**
- Developed an emailing service using **C#** and **SQL** to alert users of exceptions between internal applications and **SQL Server** databases, preventing application integration errors
- Maintained SQL Server databases, wrote SQL stored procedures, and created SSRS reports to update business requests and manage the active server environment through monitoring, configurations and backups
- Optimized application functionality and fixed bugs using **ASP.NET** and **C#** for various internal tools

Carleton University, School of Computer Science Sept 2020 – Apr 2021

Software Developer *Ottawa, ON*

- Created frontend components with **React** for a course website used by **1000+** undergraduate students enrolled in the university's discrete mathematics courses, helping improve user experience and learning productivity
- Researched and designed a **RESTful API** using **Node.js**, **Express** and **MongoDB** to expand future project iterations

PROJECTS

Green Vehicle Incentive Tracker | *JavaScript, Node.js, Express, SQL, HTML, CSS* ⌂

- Created a full stack web application to track incentive values, benefits, and technical specifications for zero-emission vehicles listed on the Canada iZEV Program using **Pug, Node.js, Express**, and **SQLite**

Interactive Brokers Stock Trading CLI | *Python, Pandas, Trader Workstation API* ⌂

- Built a beginner-friendly stock trading interface using **Python, Pandas**, and **TWS API**, capable of tracking portfolio statistics and executing trades through a live Interactive Brokers client, assisting in portfolio returns of **22%** since inception

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, SQL, HTML, CSS, C++, C#
Technologies: React, Angular, Node.js, Express, GraphQL, MongoDB, Microsoft SQL Server, Jest, Robot Framework
Development Tools: Git, GitLab, Docker, Kubernetes, Helm, Jenkins, Microsoft Azure, Linux, VS Code, Agile Software Development