Stephen Wang

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EDUCATION

UNIVERSITY OF WATERLOO - Bachelor of Computer Science (85% GPA)   Sept 2020 – May 2025
Relevant Coursework: Algorithms, Database Management, Data Structures, Operating Systems, Statistics

WORK EXPERIENCE

Full Stack Developer   May 2023 – August 2023
SS&C Technologies   Toronto, ON
- Engineered new components (Custom Date Picker and Graph Display) and features with **Angular** and **TypeScript** for SS&C's Component Library, adhering to **ADA/ARIA** standards and enhancing user experiences across multiple products.
- Optimized **SQL** calls in database of 1 million+ transactions for SS&C's Retirement Fund, **shortening query times by 80%** and decreasing end-user latency.
- Created and annotated a NASU (New Account Setup) API with **Java, Spring Boot, GraphQL, PostgreSQL and SwaggerUI**, facilitating 401k plan setup in **PostgreSQL** and initiating data migration from **IBM DB2** for Retirement Fund users.
- Spearheaded **LaunchDarkly** integration, enabling all engineers to use feature flags and A/B user testing.

Full Stack Developer   Sept 2022 – December 2022
SS&C Technologies   Toronto, ON
- Shipped an **Apache Kafka** system that provides real-time notifications to clients of data changes in an **IBM DB2** database, utilizing Kafka's **publish-subscribe** functionality.
- Devised and **Dockerized** a multithreaded **Python** application with **Apache Nifi** automation to populate PDF templates with client-specific data from **SQL** database, saving 350+ man-hours annually.
- Implemented checksum algorithms such as **SHA256** to compare **PostgreSQL** data against known good values and identify discrepancies, detecting, and repairing corruption in **30+** databases.

Junior Software Developer   Jan 2022 – April 2022
FarmLink Solutions   Winnipeg, MB
- Developed an interactive crop pricing map with **Django**, **Vue** and **leaflet**, providing real-time trends and local costs to thousands of users. Authored **50+** tests with **Jest** to ensure correctness.
- Created **20+ Vue** components to revamp registration, login, and payment forms with **Chargebee**, increasing **customer acquisition rates by 10%.**

Web Developer   May 2021 – August 2021
Explorer Hop   Toronto, ON
- Overhauled a financial literacy webapp with **Django**, **JS**, **jQuery**, and **SQL** to build **30+** client-requested features including achievements, leaderboards, and a user trading system improving developer code maintainability.
- Wrote **30+** patches and hotfixes for functionality and UI issues, reducing client downtime and support requests.

PROJECTS

BudgetMonkey   github.com/ChickanWang/BudgetMonkey
- MERN webapp designed to help track monthly spending built with **React**, **Bootstrap**, and **Material-UI**. Backend created with a **Node** and **Express** RESTful API. Data stored in **MongoDB**, user data modelled with **Mongoose**,

SKILLS

Languages: Python, JavaScript, Typescript, SQL, HTML/CSS, C/C++, C#, Kotlin, Java, R, Bash, Racket
Technologies: React, Angular, Vue, MongoDB, Django, Node, Apache Kafka, Express, jQuery, Azure