

Stephen Wang

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EDUCATION

UNIVERSITY OF WATERLOO - BCS, AI Specialization (3.7 GPA, 84% CAV)

Sep 2020 – May 2025

SKILLS

Languages: Python, JavaScript, Typescript, SQL, HTML/CSS, C/C++, C#, Kotlin, Java, R, Bash, Racket

Technologies: Databricks, Scikit-Learn, React, Angular, Vue, MongoDB, Apache Kafka, jQuery, Azure, Jenkins, Docker

WORK EXPERIENCE

Backend Engineer
WealthyPlanet
May 2024 - Aug 2024
Burlington, ON

Machine Learning Engineer
Zynga Inc.
Jan 2024 – Apr 2024
Toronto, ON

- Increased ML model accuracy metrics (F1-Score, Recall, Precision) by **20%**, integrating **9+ features** via **Apache Spark** and **Scikit-learn** to better forecast potential paying players; preprocessed training data with **SQL** and one hot encoding.
- Designed a **Databricks SQL** database and dynamic dashboard for real-time model tracking across games.
- Enhanced Zynga's **MLOps platform** capabilities with **Python-based Jenkins scripting**, facilitating cross-environment **Databricks** job syncing, unit testing, and improved configuration validations, along with comprehensive unit test coverage.

Full Stack Developer
SS&C Technologies
May 2023 – Aug 2023
Toronto, ON

- Created and annotated a 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.
- Optimized **SQL** calls in database of **1 million+ transactions** for SS&C's Retirement Fund, **shortening query times by 80%**.
- 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.

Full Stack Developer
SS&C Technologies
Sep 2022 – Dec 2022
Toronto, ON

- Dockerized** and devised a multithreaded **Python** application, populating PDF templates with client-specific data from a **SQL** database, streamlining file creation with **Apache Nifi** automation.
- Shipped an **Apache Kafka** system with **Java Springboot**, providing real-time notifications to clients of data changes in an **IBM DB2** database with Kafka's **publish-subscribe** functionality.

Junior Software Developer
FarmLink Solutions
Jan 2022 – Apr 2022
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.

Web Developer
Explorer Hop
May 2021 – Aug 2021
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.

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** and user data modelled with **Mongoose**.