Stephen Wang

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EDUCATION

UNIVERSITY OF WATERLOO, 3.6 GPA, 84% CAV   Sep 2020 – May 2025
Bachelor of Computer Science, AI Specialization   Waterloo, ON

Coursework: Reinforcement Learning, Databases, Numerical Computation, Data Structures and Algorithms, Operating Systems

SKILLS

Languages: Python, JavaScript, Typescript, SQL, Java, HTML/CSS, C/C++, Kotlin
Technologies: Databricks, Pandas, Scikit-Learn, React, Angular, Vue, MongoDB, Apache Kafka, jQuery, Azure, Jenkins, Docker

WORK EXPERIENCE

Data Science Engineer   Sep 2024 - Dec 2024
Tesla Inc.   Palo Alto, CA
- Incoming Intern on the Reliability Data Science Team.

Machine Learning Engineer   Jan 2024 – Apr 2024
Zynga Inc.   Toronto, ON
- Increased ML model accuracy metrics (F1-Score, Recall, Precision) by **20%**, integrating **9+ features** via **Spark SQL** 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.
- Spearheaded **LaunchDarkly** integration, enabling all engineers to use feature flags and A/B user testing.

Full Stack Developer   May 2023 – Aug 2023
SS&C Technologies   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   Sep 2022 – Dec 2022
SS&C Technologies   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.
- Implemented SHA256 to compare **PostgreSQL** data against known good values, repairing corruption in **3+** databases.

Junior Software Developer   Jan 2022 – Apr 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.

Web Developer   May 2021 – Aug 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.