

Stephen Wang

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EDUCATION

UNIVERSITY OF WATERLOO, Bachelor of Computer Science

Sep 2020 – May 2025

Coursework: Artificial Intelligence, Distributed Computing, Reinforcement Learning, Databases, Numerical Computation

SKILLS

Languages: Python, JavaScript, Typescript, SQL, Java, HTML/CSS, C/C++, Kotlin

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

WORK EXPERIENCE

Tesla Inc.

Sep 2024 - Dec 2024

Software Development Engineer Intern

Palo Alto, CA

- Implemented and deployed a Python plotter library to pivot, aggregate, visualize, and cache CAN signal data with Bokeh, generating **100+ plots** and reducing compute costs for multiple engineering teams.
- Built an ETL pipeline to create degradation mapping tables between sub-components within Megapack and Supercharger models with Airflow, investigating and addressing data irregularities.
- Applied damage models onto various energy datasets for reliability analysis with PySpark, generating product usage tables and visualizations for different product demographics for cross functional teams.

Zynga Inc.

Jan 2024 – Apr 2024

Machine Learning Engineer Intern

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.

SS&C Technologies

May 2023 – Aug 2023

Full Stack Developer Intern

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 a custom date picker and graph display with Angular and TypeScript for SS&C's Component Library.

SS&C Technologies

Sep 2022 – Dec 2022

Full Stack Developer Intern

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**.

Farmlink Solutions

Jan 2022 – Apr 2022

Junior Software Developer Intern

Winnipeg, MB

- Developed an interactive crop pricing map with Django, Vue and leaflet, along with **50+ Jest tests for 95% code coverage**.

Explorer Hop

May 2021 – Aug 2021

Web Developer Intern

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.