# STEPHEN LIN

sy6lin@uwaterloo.ca · github.com/stephenyhlin · stephenyhlin.github.io

## SUMMARY OF QUALIFICATIONS

- ***Languages:*** TypeScript, JavaScript, Java, Python, C, C++
- ***Databases:*** PostgreSQL, MySQL, MongoDB, CassandraDB
- ***Frameworks and Technologies:*** Spring, Angular, React, Vue, Gitlab CI/CD, Ansible, Apache Kafka, Apache Geode, Selenium

## EXPERIENCE

### Full-Stack Developer

*SS&C Technologies*                                                                                            *Sep 2020 – Dec 2020*

- Integrated Maven Release plugin, Vault for secrets configuration, and Veracode scans for testing into a release pipeline to deploy production-ready Angular and Spring Boot applications, to be used as a standard template for future release pipelines.
- Configured an Ansible Playbook template to automatically connect to the Prometheus monitoring system and abstracted common connection steps into an inheritable task for any pipeline, reducing monitoring setup time from weeks to hours.
- Implemented a responsive financial report summary page in Vue and hooked report summary REST API calls to the application, decreasing time spent on calculating client's financial information for call centre workers.

### Full-Stack Developer

*SS&C Technologies*                                                                                            *Jan 2020 – Apr 2020*

- Designed and developed a production-ready end-to-end Angular knowledge base to replace previous subscription-based application, thereby saving the company $500,000 annually.
- Implemented RESTful API services that interfaces a PostgreSQL database with CRUD operations using Java and Spring and integrated them to the front-end application.
- Halved screen creation time by abstracting global Angular components, such as error modals and a two-panel multiselect feature, to be inherited into any component.

### Full-Stack Developer

*SS&C Technologies*                                                                                            *May 2019 – Aug 2019*

- Proposed and demoed a XWiki knowledge base to senior management which was approved to become a future project, estimated to save the company $500,000 yearly.
- Delivered a proof of concept using Java, Spring Boot, Apache Kafka and Apache Geode to read and store documents into a PostgreSQL and MongoDB database.

### Software QA/Web Automation Developer

*SAP Software Solutions*                                                        *Jan 2018 – Apr 2018, Sep 2018 – Dec 2018*

- Optimized the automation code base by adding more user functions to improve the conversion rate of manual test cases to automated Selenium ones by 40%.
- Mentored three co-op students by conducting code reviews, providing basic training on Git and assigning daily tasks.
- Performed system, functional, regression and performance testing on HANA Run-Time Tooling (HRTT) using automated and manual methods.

## PROJECTS AND ACTIVITIES

### Handwriting Autocorrect                                                       *Python, Solace, TextBlob, Tesseract OCR*

- Developed a tool in a Hackathon that parses handwriting using Optical Character Recognition (OCR) and suggests correct spelling of words or acronyms using Natural Language Processing (NLP) by training a TextBlob model.
- Set up a Solace messaging queue service between Raspberry Pi and the server as a scalable message broker within 12 hours.

### Ocra                                                           *Java, JavaScript, AWS Rekognition, Nightmare.JS, Android Studio*

- Developed an Android application in a Hackathon that lists stores selling an item in descending price order, using a price tag.
- Implemented the UI design of the application, deepening my understanding of Android development concepts.

## EDUCATION

### Bachelor of Applied Science in Computer Engineering

*University of Waterloo*                                                                                            *2017 – 2022 (expected)*

- ***Related Courses:*** Algorithms and Data Structures, Systems Programming and Concurrency, Database Systems, Computer Security