

JENNIFER CHEN

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EDUCATION

University of Waterloo

Bachelor of Applied Science Systems Design Engineering *GPA: 3.9*

Relevant Coursework: Data Structures and Algorithms, Digital Computation, Human Factors in Design

Waterloo, Ontario

2018 - 2023

EXPERIENCE

Scotiabank

Full-Stack Engineering Intern

Toronto, Ontario

Jan. - April 2021

- Developed loan pre-approval web app using **React**, **NodeJS**, **Express**, increasing bank revenue by **\$150,000**
- Built **MongoDB** database schema and endpoints in bank-wide service using **Mongoose**
- Improved fault tolerance of application endpoints via failure monitoring, reducing failure response time by **95%**
- Implemented token-based service-to-service authentication to authorize calls to different bank services

The Globe and Mail

Data Engineering Intern

Toronto, Ontario

May - Dec. 2020

- Led team of 2 and coordinated with QA and deployment teams for NLP (natural language processing) refactor project to scale up news article promotion decisions and optimize **new customer acquisition**
- Built **Python** and **PostgreSQL** **Apache Airflow** jobs to automate previously manual pipeline
- Reduced production microservice downtime by **20%** by implementing monitoring and alerts in **Datadog**
- Improved code coverage for **Python** app by **70%**; developed integration testing pipeline in **Jenkins**

Ratio.City

Software Engineering Intern

Toronto, Ontario

Sept. - Dec. 2019

- Prototyped **Django**, **PostgreSQL**, **Angular** web app to prove company scalability to any city worldwide
- Decreased onboarding time from **8 hours to 15 minutes** by standardizing local development environment for full application stack using **Docker**
- Launched and maintained internal sales metrics dashboard on **Apache Superset** hosted on **AWS EC2**, **increasing customer satisfaction** by **75%** over several rounds of user testing and feedback

Clearbridge Mobile

QA Analyst Intern

Toronto, Ontario

Jan. - April 2019

- Automated a manual QA assignment by developing an extensible framework in **Selenium**, **Postman**
- Ensured timely release of apps with **10,000+** users, such as Purolator and ParticipACTION

PROJECTS

Insightful Meetings *Google Cloud, Microsoft Azure, Python Flask, React*

Developed web app to parse meeting recordings and create transcript, summary and sentiment analysis

Hack the 6ix 2020

SQueue *React Native, Python Flask*

Created iOS/Android mobile app to implement queueing system for Scotiabank branch customers; chosen to participate from over 300 applicants, awarded for **Best Prototype** of 11 participating teams

ScotiaHacks 2020

EXTRACURRICULARS

Waterloop *Technical Project Manager*

Leading over 80 members across 20 projects in developing a scalable Hyperloop pod by 2025

Sept. 2018 - Present

Google Developer Student Club (DSC) *Waterloo Lead*

Building up the Waterloo DSC Chapter, engaging students in over 10 events

Sept. 2020 - Present

SKILLS

Languages: Python, Javascript/Typescript, C++, SQL
Frameworks: React, Django, Flask, NodeJS, Express, Angular
Tools/Databases: Docker, Apache Airflow, AWS, Git, PostgreSQL, MongoDB

INTERESTS

Travelling, Running, Taekwondo