

# Yu Xin Cheng

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## SKILLS

**Software:** Python, Java, Spring, Bash, SQL, C#, C++, C, React, JavaScript, HTML, CSS, JSON, YAML, Unix  
**Tools:** Azure, Git, Docker, Visual Studio, ASP.Net, Postman, Selenium, MSSQL, Oracle SQL Developer, Ansible, JIRA, Grafana, Tableau, Jenkins, Dynatrace, Kafka, AWS, MySQL

## WORK EXPERIENCE

### Software Developer

Royal Bank of Canada

Toronto, ON

July 2022 – Sep 2024

- Automated core processes such as nightly batch jobs, monthly reward and rebate processes, and application deployment steps using Bash, Python, and Ansible, significantly reducing manual work
- Enhanced efficiency of the monthly reward and rebate process by 75%, accommodating a rapidly increasing number of accounts
- Reduced application deployment time by 200% using Ansible automation and UrbanCode Deploy, leading to faster regression testing and defect detection
- Led the migration of the entire application code to new Linux servers, ensuring all components functioned correctly and interacted seamlessly, while preventing any disruptions to upstream and downstream applications
- Collaborated with BSA and QA teams to integrate 2 new lines of business into the application, delivering new features and defect fixes using Java
- Purged over 1 million inactive accounts and clients based on numerous criteria, reducing data management by 10% and achieving significant cost savings

### QA Automation Engineer Co-op

Finastra (Remote)

Toronto, ON

Sep 2020 – Aug 2021

- Developed over 50 automation tests for backend functionalities and frontend pages using ASP.Net, improving the overall robustness and reliability of the application
- Created an application to retrieve over 200 automation test results from Azure DevOps and display them on a Grafana dashboard, enhancing test coverage visibility and reporting

### Software Developer Intern

MoneySQ

Hong Kong

Jun 2019 – Aug 2019

- Migrated coupon application to a micro-service architecture via C#, MSSQL, Docker and managed its deployment and monitoring using Azure Kubernetes Service, and Grafana
- Prepared and presented 8 weekly application analytics using Tableau, providing valuable insights into application performance and user engagement for the sales team
- Automated 10 mobile application tests with Selenium and performed load testing using JMeter, improving reliability and scalability.

### Frontend Web Developer Intern

WHub

Hong Kong

May 2018 – Aug 2018

- Redesigned and enhanced both administrative and public-facing website pages using Vue.js, HTML, and CSS, improving user experience and functionality

## EDUCATION

### University of Toronto

Bachelor of Applied Science

Toronto, ON

Sep 2017 – May 2022

- Major:** Computer Engineering; **Minors:** Artificial Intelligence, Engineering Business
- GPA:** 3.81 (Final Year), 3.42 (Third Year), Cumulative GPA: 3.26

## PROJECTS

### Sheep Facial Recognition (AI)

- Developed regression models using Convolutional Neural Networks (CNNs) and cascaded networks to accurately locate facial landmarks, enabling unique identification of individual sheep

### Student Course Selection Website

- Created a course selection website using React and Flask, allowing students to search for courses, manage timetables, and leave comments and ratings