

# Rachel Wong

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## EDUCATION

**University of Waterloo** | B. ASc. in Computer Engineering

2017 - 2022

## SKILLS

**Languages:** Python, JavaScript, Typescript, Java, C++

**Frameworks and Libraries:** React, Flask, Node.js, Express.js, AngularJS

**Data Management:** DynamoDB, MySQL, MongoDB, Kafka, Hadoop, Hive, Spark

**Tools:** AWS (Lambda, ECS, S3), Google Cloud Firebase, Docker, Git

## EXPERIENCE

**Amazon** | *Software Development Engineer*

Sep 2022 - Jan 2023

- Built Venmo/Paypal payment flow in Java, reducing credit card processing fees by \$4M annually
- Identified and drove the resolution of 2 critical launch-blocking bugs across 4 teams, leading to increased Venmo adoption and reduction in customer shopping friction
- Wrote integration tests between the Amazon payment processor and Venmo/Paypal plugin service API, improving reliability for the service

**Connected** | *Software Engineer Intern*

Sep 2021 - Dec 2021

- Architected an event-driven serverless video classification system using Python, AWS Lambda, DynamoDB, SQS, and GCP Speech-To-Text Recognition, which records 4TB of video data per year and maximizes compute utilization to nearly 100%, leading to \$1M in annual AWS operating cost savings
- Improved classifier runtime performance and reduced AWS Lambda operating costs by 95% by replacing the default image with a custom Docker image on Alpine Linux

**Scotiabank** | *Full Stack Engineer Intern*

Sep 2020 - Dec 2020

- Led the development of a trends prediction portal in React Redux, featuring SSO, user dashboard for concurrent/async data pipeline jobs submission and cancellation, and data input quality checks, boosting business analysts productivity
- Added alerting to an Apache Airflow data pipeline that processed balance sheets for 15 banking products, eliminating developer toil and automating daily manual monitoring
- Created total bank balance visualizations from the data pipeline, providing SVPs with critical data insights for better-informed decision making

**Flybits Inc.** | *Frontend Developer Intern*

Jan 2020 - May 2020

- Wrote and co-led the migration path of a centralized React UI component library for 4 Ember.js legacy web apps, achieving 4x faster development and a 9% reduction in average user web page render time
- Launched a proxy service in Go to fix a JWT security vulnerability, preventing customers from \$1M loss

**OANDA** | *Web Developer Intern*

May 2019 - Aug 2019

- Developed a streamlined React Typescript replacement page for the legacy AngularJS registration page, resulting in a 10% increase in customer conversion rates
- Wrote front-end unit tests using Jest, Enzyme, Karma, and Protractor to prevent feature regressions during a rapid 2 month development cycle, improving efficiency for 8 developers