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* | *Vancouver, Canada* **5 Months | 2022 - 2023**
- Saved $4M annually for Amazon by avoiding credit card processing fees from customer transactions, through developing the Venmo/Paypal payment processing plugin service in Java
- Achieved 99.99% availability SLA for the Venmo/Paypal plugin service, using strategies via writing integration tests between the Amazon payment processor and the Venmo/Paypal plugin service API
- Reduced customer shopping friction and increased Venmo adoption rate by identifying and driving the resolution of 2 critical launch-blocking bugs across 4 teams

Connected | *Software Engineer Intern* | *Toronto, Canada* **4 Months | 2021**
- Saved $1M annually in AWS operating costs through maximizing compute utilization to nearly 100%, by architecting an event-driven serverless video classification system that records 4TB of video data per year, using Python, AWS Lambda, S3, DynamoDB, SQS, and GCP Speech-To-Text Recognition
- Reduced AWS Lambda operating costs by 95% via increasing the classifier's runtime performance through replacing the Lambda's default image with a lean custom Docker image on Alpine Linux

Scotiabank | *Full Stack Engineer Intern* | *Toronto, Canada* **4 Months | 2020**
- Increased business analyst productivity by leading the front-end development in React Redux, API design, and web design of a trend predictions portal that includes SSO functionality, a user dashboard to manage data pipeline runs concurrently and asynchronously, and input data quality checks
- Eliminated developer toil by adding alerting to an Apache Airflow data pipeline to process balance sheets for 15 bank products which previously had to be manually monitored daily
- Informed SVPs' business decisions with total bank balance visualizations, generated from data pipeline

Flybits Inc. | *Frontend Developer Intern* | *Toronto, Canada* **4 Months | 2020**
- Increased developer agility by 4x and reduced average user web page render time by 9% by writing a centralized React UI component library and co-leading its migration path for 4 Ember.js legacy web apps
- Prevented customers $1M loss by fixing a JWT security vulnerability via launching a proxy service in Go

OANDA | *Web Developer Intern* | *Toronto, Canada* **4 Months | 2019**
- Increased customer conversion rate by 10% through deprecating the legacy AngularJS registration page with a streamlined React Typescript replacement page
- Increased efficiency for 8 developers by preventing feature regressions during a rapid 2 month development cycle, through writing front-end unit tests via Jest, Enzyme, Karma, Protractor