

# Jason Li

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## EDUCATION

### Western University & Ivey Business School

Sep 2020 – Apr 2025

BSc, BA in Computer Science & Business Administration | GPA: 3.84/4.00 (89%)

- Awards: RBC Scholarship in Data Science (\$25,000), Western Scholarship of Distinction (\$3,500)

## WORK EXPERIENCES

### Khan Academy – Software Engineer Intern

May 2024 – Aug 2024

- Enhanced data transparency for 1.1MM+ students by engineering an auditing system to track districtwide changes in student records; built with **Go**, **GCP Datastore**, **GraphQL** and deployed via **Kubernetes (K8s)**
- Overhauled job status updates for 25+ stakeholders, providing real-time visibility into 3,500+ daily changes using **GCP Pub/Sub** events; visualized data by building a dashboard with **TypeScript**, **React**, **Go**, and **gRPC streaming**
- Empowered 65,000 users with multi-language speech-to-text support by integrating **OpenAI's Whisper model**

### StackAdapt – Software Engineer Intern

Sep 2023 – Dec 2023

- Delivered optimizations for identified SQL query bottlenecks across 10+ **AWS Redshift** and **Snowflake** data warehouses; collected hourly query metrics by engineering a microservice with **Go**, **Prometheus**, and **Nomad**
- Implemented a SQL parser to generate performance insights on 70,000 company-wide SQL queries daily; leveraged recursive **Abstract Syntax Tree** traversals and Regex replacements to identify querying patterns
- Built an alerting system for 80+ engineers to monitor SQL performance, used **Prometheus** and the **Slack API**

### Amazon Web Services – Software Development Engineer Intern

May 2023 – Jun 2023

- Led the development of an app to enable inline annotations for **CloudWatch** dashboards with **AWS CDK**, **Python**, and **TypeScript**, providing a central repository for 8 AWS Identity teams to manage incident resolutions
- Engineered and deployed cloud infrastructure (**Lambda**, **DynamoDB**, **S3** resources) programmatically with AWS CDK, created reusable app configs and streamlined **CI/CD**, saving 2 hours of manual setup per deployment
- Automated documentation steps for on-call staff; reduced ticketing time by up to 75% with Amazon internal APIs

### Royal Bank of Canada, Ownr – Software Developer Intern

May 2022 – Aug 2022

- Reduced subscription cancellations by 15% across 110,000 businesses by overhauling existing subscription flows and introducing referral loyalty programs with **React**, **PostgreSQL**, and **GraphQL**
- Saved 40+ hours of labor per month for users and customer support by designing an automation task to asynchronously correct typos in legal documents using **Node.js**, **RabbitMQ**, **Socket.IO**, and **AWS S3**

### Mentum Group Inc – Software Engineer Intern

Jan 2022 – Mar 2022

- Developed a distributed job scheduler with **Go**, **gRPC**, and **AWS SQS** to manage future inventory stock
- Reduced codebase function sizes by up to 97% by integrating **Go's** SQLX library to marshal **SQL** rows into structs

### Photon Commerce – Software Engineer Intern

Feb 2021 – May 2021

- Classified 800K+ products from client data with Google Cloud's **Natural Language API**, **pandas**, and **NumPy**
- Built a dataset of 100+ files for ML training by synthesizing PDF text into structured data with **Python** and **Regex**

## PROJECTS

### E-Commerce Website - React, Redux, Node.js, Express, MongoDB, Stripe API

[GitHub](#)

- Developed a mock e-commerce platform, integrating **Stripe** for payments and **OAuth 2.0** for user authentication

### Recipe Creation App - React, Firebase, Bootstrap, Python (OpenAI GPT-3, Selenium, BeautifulSoup)

[GitHub](#)

- Created an app to generate recipes and evaluate the environmental impact of ingredients using **GPT-3**

## SKILLS

**Languages:** Python, Go, Java, C++, TypeScript (React, Redux, Node.js), HTML, CSS, SQL, GraphQL, gRPC

**Data & Tools:** AWS, GCP, Azure, Firebase, MongoDB, Snowflake, Unix, Docker, Kubernetes, Figma