

## Experience

**Software Engineer II** [Samsara](#) (NYSE: IOT) **Jan 2024-Present**

- Built API management tooling while maintaining our third-party app marketplace platform [Go]
  - Played a key role in taking our API data-connectors (for Power BI and Kafka) to GA

**Software Engineer II** [Konrad Group](#) **Apr 2021-Jan 2024**

- Co-led a team of five in delivering a web platform for agricultural and wine logistics, beating a one year timeline by two months [React Query | Zustand | GMaps SDK | Framer | k6]
  - Developed inventory management tables, boosting transactional volume by \$5M+
  - Co-created a grid-based ordering workflow, halving the order placement time
  - Advocated the hooks pattern to simplify API integrations, forms, and map logic
  - Collaborated with Cloudentity™ towards a custom JWT-based auth solution
- Automated AWS cloud environment formation with Terraform [Bitbucket]
  - Became an AWS-certified [developer associate](#) during this time (2022-2025)

**Software Engineering Intern** [Amazon Web Services](#) (IQ) **May-Apr 2020**

- Rebuilt an email notification stack for unread messages and payment requests [TypeScript]
  - Created an AWS API Gateway/Lambda/SES stack (also refactored an existing CloudWatch/SNS/SQS system) that reliably sends thousands of emails a week

**Software Development Intern** [RS Energy](#) (now [Enverus](#)) **Jan-Aug 2019**

- Reduced a 2-hour multi-user CSV validation and upload process to a 2-minute single-user task
  - After discovering inefficiencies in a data pipeline, I offered to deliver a CSV uploader React app eliminating 90+% of data-ingest bottlenecks [Node.js]
- Rebuilt a 10-year-old MS Access DBMS concurrently serving 50+ international employees
  - React app on top of a PostgreSQL DB and Koa REST middleware [Docker | CI/CD: Teamcity]
- Created an ETL pipeline linking an MS Azure Data Lake with KineticaDB (GPU-driven) and DynamoDB [Hadoop | Scala | Spark]

**Assistant Coding Instructor** [Discover Coding](#) **Sep-Dec 2018**

## Projects

- [OwnMyWay](#) (2020) Lets qualified drivers earn sharing rides [Android (Java) | GCP Firebase]
- [UAARG](#) club (2020) autopilot system developer [Python]
  - Optimized data transfer rates from the quadcopter's cameras to the onboard computer
- [TouchTrack](#) (2018) An Android app and desktop script system that gives a smartphone cursor control of the host PC using WebSockets [Android (Java) | Python]
  - Won the [Outstanding Innovation](#) award from the Students' Union (2018)
- [Graphing Calculator](#) (2017) Plots n-degree polynomial/sinusoidal charts on an Arduino [C++]

## Education

**BSc in Computer Engineering | 3.74/4 | [University of Alberta](#)** **Class of May 2021**

- Received the Jason Lang Scholarship 4 years consecutively (2016-2020)
- Algorithms [C++], deep neural net learning [TensorFlow], OOP [Java], and ICs [VHDL | VLSI]