

## Experience

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**Software Engineer** [Konrad Group](#) **Apr 2021-Present**

- Co-led a team of 4 developers in delivering an agricultural and wine ordering web portal with invoice management, beating a 1-year timeline by 2-months [*React Query* | *Framer Motion*]
  - Used a hook-based approach to simplify API integrations, form validation, and tables
  - Helped build a custom auth solution on top of Cloudfity to support multi-profiled users
  - Added deep-linking so users can easily share URLs with preset table filters and settings
- Launched a Next.js web app early with fast-shifting requirements [*Elasticsearch* | *GraphQL*]
- 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
  - Added email unsubscribe URLs (with spam filter bypass headers) to automate opt-outs

**Software Engineering 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**

- Pair-programmed with 20 students (ages 8-12) to encourage creative project development

## Projects

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- [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

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**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*]