

Experience

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

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*]