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LUKE DELA CRUZ
SOFTWARE ENGINEER II

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Experience

Mid-Level SDE II **Konrad Group** **Apr 2021-Present**

➢ 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
  ○ Personally introduced 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
  ○ Added email unsubscribe URLs (with spam filter bypass headers) to automate opt-outs

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**

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

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*]

REFERENCES AVAILABLE UPON REQUEST OPEN TO RELOCATION OR REMOTE WORK