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LUKE DELA CRUZ

SOFTWARE ENGINEER

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Experience

Software Engineer   **Konrad Group**   **04/2021-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 Cloudentity 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 (07/2022-expires 2025)

Software Engineering Intern   **Amazon Web Services (IQ)**   **05-08/2020**

➢ Rebuilt an email notification stack for unread messages and payment requests [*TypeScript*]
  ○ Created an AWS API Gateway/Lambda/SES stack (also refactored an existing AWS CloudWatch/DynamoDB/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 part of* **Enverus)**   **01-08/2019**

➢ 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 PostgreSQL DB and a 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**   **09-12/2018**

➢ 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

University of Alberta | **BSc in Computer Engineering** | **3.74/4.00**   **Class of 05/2021**

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