Isaac Lall

☐ (+1) 519-722-1800 | ✉ ilall@uwaterloo.ca | ⊙ isaaclall | 🔗 isaac-lall78 | Academic Year: 4th

Skills

Languages	Golang, Python, Java, Kotlin, C, C++, SQL, JavaScript, HTML, CSS
Technologies	Express.js, React.js, Node.js, GraphQL, MongoDB, MySQL
Tools	Datadog, Docker, Numpy, Pandas, SqlAlchemy, Git, Jira

Work Experience

Bolt Checkout · Software Engineer · California   *Aug - Dec 2021*

Golang · Typescript · React · Postgres · GraphQL · Datadog · AWS

- Built an API endpoint to enable **10mil** shoppers to checkout with Forever21's products directly on Pinterest with one click
- Engineered webhook handlers to add BNPL options like Affirm to Bolt checkout modal boosting merchant sales by **8%**
- Wrote GQL mutations allowing shoppers to split up items in their order into home delivery and in-store pickup. Feature was used by **30k+** shoppers in 1st week of launch
- Programmed a cron job to periodically delete files that were created X amount of days ago freeing up **50+** GB of space

Loblaw Companies Limited · Software Developer · Toronto   *Jan - Apr 2021*

Java · Google Cloud · React · MySql · Firebase

- Engineered an async pub/sub message subscriber for the online grocery delivery service, processing **1000+** orders/min
- Developed a testing framework to simulate orders and picking scenarios reducing testing time by **40%**
- Built a highly concurrent microservice that does **400+** database transactions/min to reconcile inventory counts

LoyaltyOne · A&I Developer · Toronto   *May - Aug 2020*

Kotlin · PySpark · MySql · Node · Angular

- Deployed a backtracking algorithm using 'relevance mapping' to parse **500+** lines crash logs to output filtered stack traces
- Built a scalable data pipeline to perform ML inference on **1-mil+** rows of Air-Miles data to predict customer segmentation
- Resolved over-fetching of data in API calls by utilizing **GraphQL** resolvers, reducing customer checkout time by 20%

QuadReal Property Group · Data Analyst · Toronto   *Sep - Dec 2019*

Python · Excel · SQL

- Utilized **Numpy** and **Pandas** to automate the data cleaning process, decreasing the data preparation time by **60%**
- Engineered data dashboards to communicate acquisition and disposition insights into the housing markets
- Wrote scripts to clean and profile vendor data, the final file will act as a single source of truth for the organization

Projects

ProShop - Ecommerce platform   *May 2021*

- Built a fully functional E-commerce platform from the ground up using **Mongo DB**, **Express**, **React**, **Redux**, and **Node**
- Designed product pages with images/descriptions, a rating/review system, and admin pages for product CRUD operations
- Engineered a comprehensive search feature, a top products sold carousel and built in **JWT** user authentication
- Developed a featured shopping cart with a checkout process that includes PayPal/credit card payment methods

AI For Good Hackathon - Placed 3rd   *Mar 2019*

- Designed classification ML models **(XGBClassifiers, FCN, Logistic Regression)** to improve loan default risk calculations
- Engineered automated Numpy data assimilation pipeline to feed alternate credit data to model
- Designed the back-end for the web application in Python, using **Flask** for the server and **Sqlalchemy** for the database

Education

University of Waterloo · Bachelors of Honours Mathematics (CO-OP)   *Sep 2018 - Apr 2023*