ANDREW LEE

Systems Design Engineer
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WORK

Software Engineering Intern | Ritual
May 2019

Toronto, ON // *Java, Javascript, Bazel, MySQL, GCP (Appengine, Memcache)*

Led design & development of the in-store referral program incentivizing cashiers to refer customers to use Ritual by rewarding them with Ritual credits

Refactored the merchant devices to handle internationalization including localized strings, currency, payments and SMS in support of global expansion

Implemented in-app and SMS ad campaigns to increase engagement for the in-store referral program

Infrastructure Engineering Intern | GroupBy
September 2018

Toronto, ON // *Java, Spring Boot, Elasticsearch, Docker, Kubernetes, Pub/sub*

Optimized messaging queue service using Google pub/sub to dynamically update Redis caches whenever a search query is processed

Worked on semantics microservice, preprocessing a user's search, transforming it into a meaningful query using ElasticSearch increasing search accuracy

Set up Datadog dashboards, providing performance metrics and custom alerting

Software Developer Intern | TradeRev
January 2018

Toronto, ON // *Groovy, Grails, Angular, Node, AWS (DynamoDB, S3, EC2)*

Allowed multiple devices per user by refactoring the login service handling authentication and permissions across web and mobile platforms

Developed features for invoicing and user account services using Groovy and Angular on web as well as Android and Swift for mobile

Full Stack Developer Intern | HubHead
May 2017

Markham, ON // *Groovy, Grails, Javascript, JQuery, HTML/CSS*

Designed an ETL tool to ingest and parse millions of Excel and SQL records, generating data analytics and data quality reports

Collaborated with clients to gather business requirements and create mock-ups of various data analysis reports

Java Developer Intern | PointClickCare
September 2016

Mississauga, ON // *Java, Spring, Javascript, JSP, PostgreSQL*

Added a new analytics platform and designed data-driven Tableau dashboards to give users better insight into their KPI's and analytics for over 13,000 customers

EDUCATION

University of Waterloo
2014 - 2020

BASc of Systems Design Engineering

Ranked top 10 out of 90 students

Courses: Data Structures and Algorithms, Circuits, Pattern Recognition, Applied Statistics, Machine Intelligence, Databases

SKILLS

Languages
Java, Javascript, Python, C++, Dart, Scala, MATLAB, R

Front End
Angular, HTML/CSS, JQuery

Back End
Grails, Spring/Spring Boot, NodeJS

Database
Postgres, MySQL, Redis, Elasticsearch

Tools & Technologies
Git, GCP, AWS, Kubernetes, Docker

Libraries
Flutter, Mockito, TensorFlow, Pandas

PROJECTS

Vehicle Collision Classifier
Python, Pandas, NumPy, TensorFlow

Predict severity of vehicle accidents using various ML techniques such as logistical regression, SVM and neural networks

Physio
Flutter, NodeJS, AWS (Lambda, RDS)

Mobile app for people undergoing physical rehabilitation to improve adherence rates to their prescribed exercise routines

ZhengGu
MIDI, Arduino, C

Designed and built an electronic version of the Guzheng, a traditional Chinese musical instrument

TrakRecord
Android, Java, Estimote SDK

Android app designed as a companion for marathon runners

Won 1st place for the WearHacks SickKids Challenge and an additional $20K in further support