Hanson Ng

416-315-3209 | ☐ ng.hanson@hotmail.com | ☐ NgHanson | in nghan

Skills

Languages and Frameworks

Java (Play, Spring), Ruby (Rails), HTML/CSS/JS (React, Express, RxJS), Golang, C++, C, Python

Technologies Relational Databases, Redis, Hadoop, Spark, Android, Docker

Experience _

Citadel LLC New York, NY

SOFTWARE ENGINEERING INTERN (FULL STACK)

MAY - AUG. 2019

- · Developed and released a real-time financial data web-application in React and RxJS utilized by hundreds of analysts
- · Maintained and added data processing and visualization functionality to Java and Hapi. JS backend APIs

Scribd San Francisco, CA

SOFTWARE ENGINEERING INTERN (DATA ENGINEERING)

SEP. - DEC. 2018

- · Monitored and managed the data pipeline; maintained Hadoop jobs and handled content ingestion and parsing issues
- Rewrote and optimized the two largest daily Hive tasks in Spark, reducing runtime by 92%
- Rearchitected task scheduling service and backend logging; improvements enabled recovery runs and task history queries
- Released a new Go based image delivery and processing server and implemented an algorithm to dynamically generate matching backgrounds for book covers

StackAdapt Toronto, ON

SOFTWARE ENGINEERING INTERN (FULL STACK)

JAN. - APR. 2018

- Optimized the main dashboard by creating a custom SQL statement assembler and reduced page loading times by 91%
- Developed features in Rails such as supporting multiple user sessions, an internal beta mode, new statistics reporting, and created React components for front-end rework
- · Integrated a geolocation mapping API and OS version filtering to a performant Go ad-exchange bidding service
- · Prototyped a service to capture live browser screenshots to provide insight into client advertisement displays

Street Contxt TORONTO, ON

SOFTWARE ENGINEERING INTERN (FULL STACK)

MAY - AUG. 2017

- Shipped features in Play such as content bookmarking, integrating a client CSM database, new internal metric reports, and React updates for a platform overhaul
- Built an Akka microservice to track interaction times via tracking pixels, utilizing Datadog for metrics monitoring
- Expanded client notifitcations functionality by building and optimizing customized statistics reports

CIBC Live Labs TORONTO, ON

INNOVATION ENGINEER INTERN (FULL STACK)

SEP. - DEC. 2016

- Developed an Android banking portfolio overview app and built a RESTful API for a backend service using Spring
- Prototyped an Android app using Firebase, OCR, and Socket.IO to perform bill splitting sessions and background payments

Shoppers Drug Mart Innovation

TORONTO, ON

Applications Developer Intern (android)

JAN. - MAR. 2016

- Finished and released an Android pharmacy ailment diagnosis tool; estimated at \$10 million in outsourced development
- Implemented a head office check-in system using an Android app and a Google RESTful Apps Script Execution API

Education

University of Waterloo Waterloo, ON

BACHELOR OF APPLIED SCIENCE IN MECHATRONICS ENGINEERING, HONOURS CO-OP

APR. 2020

- Prototyped an IoT parking device using LoRa Technology and built a React based visualization and analytics platform for the Engineering Capstone Project; received the Voestalpine Award for Design Elegance
- Cumulative Average of 88%