Richard Dang

University of Waterloo - Computer Engineering

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SKILLS

LANGUAGES	|	*Java, Python, JavaScript, Scala, SQL, HTML and CSS*
TECHNOLOGIES	|	*Spark, Kafka, AWS EMR/S3, Hortonworks, Docker, Maven, Jenkins, Git and JetBrains*
CONCEPTS	|	*Distributed Systems, OOP, REST API, CI/CD and Agile*

EXPERIENCE

Sep. – Dec. 2019

DATA ENGINEERING | *Nerdwallet — San Francisco, CA*
◇ Created **Spark streaming** app to enrich traffic events at **6400 events/sec** from Kafka to S3
◇ Developed near real-time streaming app that groups events into sessions based on user inactivity
◇ Used Spark **batch processing** to detect and categorize bot activity in event traffic on a daily basis
◇ Set up cluster infrastructure for **Kafka** and **AWS EMR** to host Spark applications

Sep. – Dec. 2018

BIG DATA ENGINEERING | *Ultimate Software — Weston, FL*
◇ Developed **Spark** apps for event ingestion and GDPR which processes over **600 events/sec**
◇ Built a **Spark streaming** app for processing and replaying events with **Kafka** integration
◇ Setup **Hadoop** on a **Docker** environment for automated integration testing through **Concourse**
◇ Integrated metrics instrumentation using **AOP** allowing for greater insights on app performance

Jan. – Apr. 2018

SOFTWARE ENGINEERING | *Ultimate Software — Toronto, ON*
◇ Introduced functionality to host web app used for managing time clocks with **Spring** and **Hibernate**
◇ Created GDPR app to purge deleted employees by implementing schema constraints to maintain database integrity using **Liquibase**
◇ Incorporated supervisor override check-in feature on web time clock app using **AngularJS**

May – Sep. 2017

SOFTWARE DEVELOPER | *Hubdoc — Toronto, ON*
◇ Built and migrated hundreds of document fetching services, increasing reliability from **46%** to **73%**
◇ Implemented an intranet dashboard with **ExpressJS** and **BackboneJS** used for proxy management

Sep. – Dec. 2016

ASSOCIATE QA ANALYST | *Flipp — Toronto, ON*
◇ Introduced continuous integration across multiple projects providing early risk detection, feedback loops, and quick deployments utilizing **Jenkins**
◇ Automated performance testing to ensure response times for A/B test framework using **JMeter**

PROJECTS

Feb. - May 2018

FIND MY RESUME | *Angular 4, Spring Boot and Heroku*
◇ Web app that hosts a collection of resumes which users can be preview, edit and download

Jul. - Nov. 2016

ALEXA BUDDY | *Python, Flask-Ask, Indico API and Reddit API*
◇ Amazon Alexa app that responds with Reddit posts while filtering out negative sentiment
◇ Won **Best Hack Against Online Harassment** at Electric City Hacks

EDUCATION

2015 - Apr. 2020 (expected)

COMPUTER ENGINEERING (BACHELOR OF APPLIED SCIENCE) | *University of Waterloo*
◇ Distributed Computing, Data Structures and Algorithms, Algorithm Design and Analysis, Database Systems, Programming for Performance, Computer Networks, Computer Security, Operating Systems, and Compilers