

# Richard Dang

4A Computer Engineering

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## SKILLS

**LANGUAGES** | C++, CSS, HTML, SQL, Java, JavaScript and Scala  
**TECHNOLOGIES** | IntelliJ, Git, Maven, Spring, Hibernate, Docker and Hortonworks Big Data Platform  
**CONCEPTS** | Agile, CI/CD, MVC, OOP, Functional Programming, REST API and Distributed Computing

## EXPERIENCE

Sept – Dec. 2018 **BIG DATA ENGINEERING** | *Ultimate Software – Weston, FL*  
♦ Supported development of ingestion and GDPR spark apps which processes over **600 events/sec**  
♦ Built a **Spark** streaming app for processing and replaying events with **Kafka** integration  
♦ Setup **Docker Hadoop** environments for automated integration testing on **Concourse** CI pipelines  
♦ 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 thousands of Android, Linux, and web time clocks, maintained through **GWT, Spring and Hibernate**  
♦ Created GDPR app to purge deleted employees by implementing schema constraints to maintain database integrity using **Liquibase**  
♦ Incorporated features on web time clock app using **AngularJS** to allow supervisors to override employee check-ins

May – Sep. 2017 **SOFTWARE DEVELOPER** | *Hubdoc – Toronto, ON*  
♦ Built and migrated hundreds of document fetching microservices from **PhantomJS** to **NightmareJS**, increasing reliability from **46% to 73%**  
♦ Implemented an intranet dashboard with **ExpressJS** and **BackboneJS** used for proxy management  
♦ Integrated webhook within web app for receiving updated user credential alerts

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**  
♦ Developed automated system checks to enable back-end health monitoring across all platforms  
♦ Automated performance testing to ensure response times for A/B test framework using **JMeter**

Jan. – Apr. 2016 **SOFTWARE TEST AND TOOLS DEVELOPER** | *GEO Semiconductor – Toronto, ON*  
♦ Reduced overall testing time by more than **80%** through automation of testing procedures  
♦ Developed host tools for internal testing/development and designed regression test plans

## PROJECTS

Feb. 2018 - Present **FIND MY RESUME** | *Angular 4, Spring Boot and Heroku*  
♦ Web app that hosts a collection of uploaded resumes which users can be preview, edit and download

Jul. - Aug. 2017 **ATOM LEETCODE** | *ES6 JavaScript, Node.js, Travis CI and Jasmine*  
♦ Atom package that extracts coding challenges and solutions from Leetcode into the Atom text editor

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

May – Jul. 2016 **STEP TRACKER** | *Java and Android Studio*  
♦ Android app that utilizes device sensors and finite state machines to track steps and detect direction

## EDUCATION

2015 - 2020 **COMPUTER ENGINEERING** | *University of Waterloo*  
♦ Candidate for Bachelor of Applied Science Degree in Computer Engineering  
♦ Received President's Scholarship for **90-95%** entrance average