

# Richard Dang

## 4A Computer Engineering

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## SKILLS

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

## EXPERIENCE

- Sep. – **BIG DATA ENGINEERING** | *Ultimate Software — Weston, FL*  
Dec. 2018
  - ◇ 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. – **SOFTWARE ENGINEERING** | *Ultimate Software — Toronto, ON*  
Apr. 2018
  - ◇ 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 – **SOFTWARE DEVELOPER** | *Hubdoc — Toronto, ON*  
Sep. 2017
  - ◇ 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. – **ASSOCIATE QA ANALYST** | *Flipp — Toronto, ON*  
Dec. 2016
  - ◇ 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**

## PROJECTS

- Feb. – **FIND MY RESUME** | *Angular 4, Spring Boot and Heroku*  
May 2018
  - ◇ Web app that hosts a collection of resumes which users can be preview, edit and download
- Jul. – **ATOM LEETCODE** | *ES6 JavaScript, Node.js, Travis CI and Jasmine*  
Aug. 2017
  - ◇ Atom package that extracts coding challenges and solutions from Leetcode into 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 – **STEP TRACKER** | *Java and Android Studio*  
Jul. 2016
  - ◇ Android app that utilizes device sensors and finite state machines to track steps and detect direction

## EDUCATION

- 2015 – **COMPUTER ENGINEERING (BACHELOR OF APPLIED SCIENCE)** | *University of Waterloo*  
2020 (expected) ◇ Distributed Computing, Data Structures and Algorithms, Database Systems, Computer Networks, Computer Security, Operating Systems, and Compilers