

# Hello Java

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## SUMMARY

Seeking an internship/coop position in software engineer starting from summer/fall 2019

Master of science with solid designing, programming, testing, and analysis skills. Has a wide range of industrial level project experience, including **full stack web development** and big data analysis, 6+ years of programming experience with proficiency in multiple **object-oriented programming** languages and web application frameworks

## TECHNICAL SKILLS

**Programming Languages:** Java, HTML/CSS/JavaScript, Python

**Front End Technologies:** React.js, Angular7, Bootstrap4, jQuery, AJAX

**Back End Technologies:** Node.js, Express.js, Tomcat, Jetty, Spring MVC, Spring Boot, Spring Cloud

**Data Technologies:** MySQL, Oracle, MongoDB, Hadoop, Mapreduce, Spark, Matlab

**Tools & System:** Docker, Maven, Git, JSON, XML, TCP/IP, WebSocket, AWS; Windows, Mac, Linux

## EDUCATION

**University** **MA**  
*Master of Science in Data Analytics Engineering, GPA 4.0 / 4.0* *Sep 2018 – Jun 2020*

**University** **China**  
*Bachelor of Science in Mathematics & Applied Mathematics, GPA 85 / 100* *Sep 2013 – Jun 2017*

## PROFESSIONAL EXPERIENCE

**Technology** **China**  
*Front End Developer & SQL Developer* *May 2017 – Apr 2018*

- Interacted with data in server end using **AJAX**, then designed various data report web pages using **Angular.js**, such as online dynamic national shuttle arrival/departure schedules, and real-time location charts of key products distribution
- Added new features to current pages using **React.js**, such as adding data download feature to all pages which is convenient for offline data processing, and adding dynamic effects to order history line charts to visualize orders growth trend
- Cooperated with backend programmers, then based on their demands wrote **SQL** stored procedures to implement data cleaning; Optimized current **PL/SQL** codes to ease the burden of **Oracle** database administration

## SELECTED PROJECTS

**Online Search Ads Generator** **MA**  
*Java-Based Web Service Platform & Spark-Based Big Data Analysis* *Dec 2018 – Feb 2019*

- Designed a web crawler using **Jsoup and Proxy Server**, which crawled thousands product data from Amazon and preserved them in **MySQL** as raw Ads data
- Employed **Memcached** as Ads inverted index, and developed Search Ads web service with **Jetty** which supported Query understanding, Ads selection, Ads ranking, Ads filter, Ads pricing, and Ads allocation
- Implemented Query rewriting using **Python and Spark**, which generated more relevant Ads from raw data and predicted Ads Click-through rate

**Uber Real-Time Location System** **MA**  
*Spring-Based Microservices Modern Java Application* *Oct 2018 – Nov 2018*

- Designed a real-time fleet location monitoring system using **Spring Boot**, then preserved data in **MongoDB** using **Spring Data**, which helped Uber simulate, update, and monitor the cars location status
- Developed **Microservices** architecture using **RabbitMQ**, which decoupled the whole backend services such as fleet location persistence, ingest and update services
- Implemented service registration and discovery using **Spring Cloud Eureka** and made the service more resilient using **Spring Cloud Hystrix** as circuit breaker
- Utilized **Docker** to containerize infrastructure and **Maven** to manage dependencies

**Blog Website** **MA**  
*JavaScript-Based Full Stack Blog Website Application* *Sep 2018 – Oct 2018*

- Developed an interactive blog client system with beautiful landing and portfolio pages using **jQuery, Bootstrap4, and SemanticUI**, where users can browse, upload, and make comments on articles
- Built a web server using **Node.js/Express** framework and designed **RESTful APIs** to implement common internal business logic of blog websites, including password authentication, comments authorization, and blog homepage management
- Utilized **MongoDB** to store users blog information and provide data to web service