

Derrick Guo

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EDUCATION

UNIVERSITY OF WATERLOO
BACHELOR IN COMPUTER SCIENCE
 Expected Dec 2020 | Waterloo, ON
 Business Option
 Faculty of Mathematics
 Cum. GPA: 3.86 / 4.0

MINOR IN STATISTICS
 Expected Dec 2020 | Waterloo, ON
 Faculty of Mathematics

LINKS

Github:// [h59guo](#)
 LinkedIn:// [Derrick Guo](#)
 Click to visit my personal website

COURSEWORK

UNDERGRADUATE

Distributed System
 Computer Networks
 Machine Learning
 Numerical Computing
 Operating System
 User Interface
 Objected Oriented Programming
 Compiler
 Database
 Data structure & Algorithm

SKILLS

PROGRAMMING

• C++ • JavaScript • Python
 • NodeJS • ReactJS • AWS
 • Java • TypeScript • Android
 • MatLab • Bash • SQL • C

AWARDS

• Certificate of outstanding internships (Winter & Fall 2019, Huawei Canada)
 • Dean's Honors list (Average above 87%): Winter 2020; Spring 2019; Winter 2018; Spring 2018; Winter 2017; Fall 2016
 • Faculty of Mathematics Entrance Scholarship (September 2016)
 • Top 1% in Euclid Mathematics Contest (May 2016)

SUMMARY OF QUALIFICATIONS

- Experienced in Object-Oriented Programming languages such as **C++** and **Java**
- Proficient in Cloud NoSQL database development such as **AWS DynamoDB**, back-end development with **TypeScript** & **NodeJS**, and front-end websites development with **jQuery** & **ReactJS**
- Excel in **Android** application development with **Java**, Android native library implication with **C++**, and their communication through **JNI**
- Familiar with **Agile** Development Methodology and capable of finishing tasks in strict deadlines

EXPERIENCE

THOMSON REUTERS | SOFTWARE DEVELOPER INTERN

May 2020 - Aug 2020 | Toronto, ON

- Implemented the **Back-end Stream Manager Service** using **AWS KCL** in **NodeJS**, **AWS Kinesis Stream**, **IAM** and **DynamoDB**
- Optimized **Database Replication Services** by introducing the **DynamoDB Global Tables** feature in multiple development environments
- Gained experience of **aws-cli** and **bash script** by managing AWS infrastructures and deployment scripts

HUAWEI CANADA | SOFTWARE ENGINEERING INTERN

Jan 2019 - Apr 2019, Sep 2019 - Dec 2019 | Markham, ON

- Designed and implemented the **C++ library** and the **Android Demo APP** of a **hyper spectrum reconstruction** project that has been delivered to Huawei HQ
- Built an end-to-end **C++ library** and **Android Application** development of **Slow Motion Engine** for Huawei gallery, gained experiences with **OpenCV C++**
- Integrated the **Android SDK** of an external thermal camera with Huawei Phone's camera to achieve registration of images captured from both cameras
- Built a complete **automation testing platforms** with **Python** for comparing accuracy of different face recognition models
- Implemented the **Jenkins** automation testing pipeline for end-to-end testing for Huawei smartphone's **Video Analysis Engine**

SAP CANADA | SOFTWARE DEVELOPER INTERN

May 2018 - Aug 2018 | Waterloo, ON

- Worked on developing **Page Object Model** and maintaining barrier's stability
- Participated in feature enhancement development for the **handsontable** of SAP HANA User Interface
- Gained experience with POM development in component testing with **Selenium** and fixing flickering test scripts for User Interfaces

PROJECTS

ULINK | UFORSE EDUCATION - <https://ulinkapp.com/>

- Designed and implemented the Ulink front-end web pages in **ReactJS** and **material-ui** library
- Worked on building the back-end database API using **Firebase**