# JIMMY QI

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## EMPLOYMENT

**Software Engineer** **Huawei** **Fall 2021**

- Improved usability of AI model debugger by drastically decreasing the size of tensor dump files created during training on all GPU, CPU and Ascend platforms

**Research Assistant** **Waterloo BBCR Lab** **Spring 2021**

- Implemented multiple cutting-edge cryptographic algorithms in Java including homomorphic encryption, signature algorithms, and multiple zero knowledge proofs
- Deployed cryptographic blockchain smart contracts on the Hyperledger Fabric for researching speed of various ZKSNARK libraries

**Software Engineer** **Tamr** **Spring – Summer 2020**

- Reduced common upgrade failures by designing and developing the Maintenance Framework which provides a platform to run Maintenance Scripts that improve the health of the system
- Investigated the needs of Tamr users and field engineers and built a garbage collection Maintenance Script that cleans incompletely deleted Projects whose dangling references led to numerous blocker tickets
- Helped users transition through backward-incompatible upgrades by running Maintenance Scripts in the upgrade process. This type of change was a lot harder to make before due to the lack of confidence in correctness.
- Improved the accuracy of type-checking system of a SQL-like language by redesigning the type hierarchy of nested types

**Software Developer** **Hubdoc** **Fall 2019**

- Expedite my client's accounting workflow by consolidating documents and help them scale their practice through building and maintaining 50+ JavaScript web-scrappers that download financial statements from various institutions (eg. Banks)

## TECHNICAL EXPERIENCE

**Mappify** **Javascript** **Jul 2019**

- Massively reduced the complexity of applying to hackathons on MLH.io by adapting the UI to integrate a map marked with hackathon locations. Packaged as a Chrome extension.
- Eliminated the need to toggle between MLH and google maps, along with the necessity to learn US geography

**EtherRide** **Javascript, Node, Solidity** **Jan 2019**

- Provided legal reliability in human-computer interactions by constructing an autonomous "Uber" using blockchain, winning best blockchain hack at HackUofT 6.
- Adopted Node to link frontend React to SmartCar API to securely control vehicles once smart contract executes

## EDUCATION

**University of Waterloo** **Expected Dec 2022**

- Double Major in Computer Science and Pure Mathematics, GPA 89
- Achievements: Dean's Honours List, Mathematics Scholarship, President's Scholarship
- Related Courses: OOP, Data Structures, OS, Concurrency, Algorithms, Optimization, Public Speaking

## SKILLS

**Languages:** Java, C++, C, Python, Scheme, SQL, R, JavaScript, HTML, CSS
**Others:** Node, React, PostgreSQL, Backbone, Handlebar, Scikit-Learn, Git