**HUI LI**

Email: [huiliyeya@gmail.com](mailto:huiliyeya@gmail.com) Phone: (919)491-8964

LinkedIn: <https://www.linkedin.com/in/hui-li-ab6268146/>

**EDUCATION**

**Duke University**, Durham, US 08/2017- 05/2019

* Master of Engineering in Computer Engineering GPA: 3.73
* Core course: Performance Optimization & Parallel, Systems Programing, Software Engineering, Engineering Robust Server Software, Advanced Algorithm

**Baylor University**, Waco, US 08/2014 - 12/2016

* Bachelor of Engineering in Electrical and Computer Engineering GPA: 3.61
* Dean’s Academic Honor List

**SKILLS**

**Languages**: C/C++, Python, Java, HTML5

**Technologies**: Unix, High Concurrency, Django, PostgreSQL, MongoDB, git, Docker, CUDA, Android Studio

**WORK EXPERIENCES**

**Microfun,** Beijing, China06/2018 - 09/2018

C++ backend developer Intern

* Designed, developed and tested a high-performance HTTP server to replace former framework h2o for the further development and higher performance
* optimized thread utilization based on Atomic, Kqueue and Asynchronized I/O which is the different with the normal framework using Non-block I/O
* Increased the performance largely using thread pool and memory pool as the strategy
* Increased the robustness to failures with RAII and Exceptions
* Deployed the server into a container with Docker for the ease of transportation and isolation

**Baylor Research and Innovation Collaborative**, Waco, US 07/2016 - 09/2016

Undergraduate Researcher

* Modeled four-dots Quantum-dot Cellular Automata molecules in MATLAB for simulation
* Improved the program in CUDA and ran on GPU for 5x speed up

**SELECTED PROJECTS**

**Mini Amazon,** Duke University05/2018 – 06/2018

* Built the Mini Amazon website frontend based on Django and Python
* Implemented the Backend in C++ for high concurrency
* realized the communication between the front and back end using Google Protocol Buffer for the ease of communication
* Replaced PostgreSQL with MongoDB for the flexibility of editing the attributes for the product

**Rootkit,** Duke University 05/2018 – 06/2018

* Implemented a Rootkit in C++ which is designed to hide the intrusion to a system as well as to maintain privileged access
* The Rootkit can hide the malicious program, the related directory under /proc, the modifications made to the system and kernel module installed

**ProjectU Android-APP,** Duke University 03/2018 – 05/2018

* Built a project management Android app for software developers with agile development as default template in Java and Android Studio
* Implemented the contact list and real-time group chat feature using Google Firebase as backend