HUI LI

Email: 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, China 06/2018 - 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 University 05/2018 – 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