

HUI LI

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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
- 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