

HUI LI

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EDUCATION

Duke University , Durham, US	08/2017- 05/2019
■ Master of Engineering in Computer Engineering	GPA: 3.73
Baylor University , Waco, US	08/2014 - 12/2016
■ Bachelor of Engineering in Electrical and Computer Engineering	GPA: 3.61
■ Dean's Academic Honor List	
University of Electronic Science and Technology of China , Chengdu China	09/2012 - 07/2014
■ Bachelor of Engineering in Biomedical Engineering	GPA: 3.2

SKILLS

Programming Languages: C/C++, Python

Technologies: Unix, High Concurrency, PostgreSQL, MongoDB, Django, CUDA

WORK EXPERIENCE

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 which caused Bug when dealing with high concurrent request	
■ The server is based on Atomic, Kqueue and Asynchronized I/O to reduce the CPU block time which is the different with the normal framework using Non-block I/O	
Baylor Research and Innovation Collaborative , Waco, US	07/2016 - 09/2016
Undergraduate Researcher	
■ Modeled four-dots Quantum-dot Cellular Automata molecules in MATLAB to help professor develop theory	
■ Improved the program in CUDA and ran on GPU for 5x speed up	

SELECTED PROJECTS

Mini Amazon , Duke University	05/2018 – 06/2018
■ Built a Mini Amazon website based on Django and Python	
■ Implemented the Backend in Golang for high concurrency	
■ designed the protocol with the front end using Google Protocol Buffer for the ease of communication	
■ Replace PostgreSQL with MongoDB for the flexibility of editing the attributes for the product	
Stock Exchange Matching Server , Duke University	03/2018 – 04/2018
■ Implemented TCP connection using Boost::asio library for reliable communication	
■ Designed the database schema and interacted with PostgreSQL using libpqxx	
■ Handled multiple concurrent requests effectively using thread pool as the strategy	
■ Increased the robustness to failures with RAIL and Exceptions	
■ Deployed the server into a container with Docker for the ease of transportation and isolation	
HTTP Caching Proxy , Duke University	02/2018 – 02/2018
■ Wrote a HTTP caching proxy using C++ in Linux environment	
■ Increased the performance with multiple thread programming	
■ Deepened understanding in HTTP and Cache	
Linux Command Shell , Duke University	11/2017 – 12/2017
■ Wrote a Linux command shell in C++ which can process commands	
■ Implemented multiprocessing pipelines to handle multiple commands	