

Yujie REN

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EDUCATION

Master of Science in Computer Science *Sep. 2015 - Present*
GPA: 3.70/4.0, Rutgers University, New Brunswick, NJ

Bachelor of Engineering in Software Engineering *Sep. 2009 - Jun. 2013*
GPA: 3.30/4.0, Nanjing University of Post and Telecommunication, Nanjing, P.R.China

WORK EXPERIENCE

Software Engineer, Fujitsu Nanda Software Technology Co.Ltd, China *Jul. 2013 - Jul. 2015*

- Coded in firmware level of Fujitsu ETERNUS DX (a RAID storage) using C/C++ and Javascript
 - Developed the functionalities of ETERNUS GUI: Host Affinity, Volume QoS and Thin Provisioning
 - Designed data structure via spec sheet, and performed logical test, unit test and bug trace
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PROFESSIONAL EXPERIENCE

Research Developer, OpTune Project, Rutgers PANIC Lab, NJ *Jul. 2016 - present*

- Dedicated in research project - OpTune: Multi-Point Performance Engineering in Server Systems
- Took charge of PHP source code debugging in social network platform - Elgg
- Performed experiments on the optimal configuration of memcached and database access

Class Project, Pipelined CPU design, Rutgers, NJ *Feb. 2016 - May 2016*

- Designed and implemented a pipelined CPU using Verilog HDL
- Finished functionalities of ALU, Decoder (subset of x86 instructions), Cache, TLB, Branch Predictor
- Designed and tested Load/Store Queue module and Out-of-order Execution module

Class Project, Compiler for TINY Language, Rutgers, NJ *Feb. 2016 - Mar. 2016*

- Implemented a compiler using C language and Lex/Yacc tools in advanced Compiler class
- Implemented lexical and grammar analysis in front-end and performs the object assembly code generation in back-end
- Optimized object assembly code by using Common Subexpression Elimination

Class Project, Dual-Level Thread Library, Rutgers, NJ *Sep. 2015 - Oct. 2015*

- Implemented basic functions of dual-level thread library in Linux such as create, destroy, mutex lock, condition variable(wait, signal, broadcast) using C Language in advanced Operating System class
- Finished both kernel threads and pure user-level threads, and interface to users
- Implemented a multithreaded network server program in C Language using my thread library

Developer & Co-founder, Bikerules.co, Syracuse, NY *Feb. 2014 - Jul. 2014*

- Developed all functionalities on an Android mobile app in Java using Google Maps API, including connecting to Bluetooth indicators on the physical devices
- Transferred turning data from physical devices to the Android app using Bluetooth 4.0
- Tested the app on Android devices and collaborated with designer and product manager to improve the apps functionalities

Developer & App Designer, mReader Mobile App, Nanjing, China *Mar. 2012 - Apr 2012*

- Took charge of the whole process of designing and developing this project
 - Completed project functional requirement and analysis
 - Took charge of designing, coding in Java, and testing on Android Device
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PROFESSIONAL SKILLS

Professional Knowledge: Algorithm, Data Structure, Computer Architecture, Compiler

Programming Languages: C/C++, Java, x86 Assembly, MIPS Assembly, Verilog HDL, PHP, Javascript

Operating System: Unix/Linux Programming (Network, Kernel, Device Driver)

Other Skills: Android App and Web Development