**YIFAN LI**

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**EDUCATION**

**Columbia University, Fu Foundation School of Engineering and Applied Science, New York, NY**

Master of Science, Computer Science December 2012

Relevant Coursework:

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| Operating System | Analysis of Algorithms in Java | Introduction to Database |
| Programming Language and Translator | Advanced Software Engineering | Advanced Programming |
| Introduction to Unix Command | Mobile Human-Computer Interaction | Database Implementation |

**Beijing University of Posts and Telecommunications(BUPT), International School, China**

Bachelor of Engineering in Telecommunication June 2011

with 1st class Honor degree(top 25%)

Relevant Coursework:

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| Programming Fundamentals in C | Object Oriented Design in Java | Internet Protocol |

**PROJECT EXPERIENCE**

“Hybrid Floating-Point Integer Unit” Fall 2011

* Built a specialized floating-point adder using a top-down RTL design
* Optimized the generalized ASM and decreased the original 45 states to 36 of the state diagram
* Synthesized FSM using Altera Quartus to implement FPGA in VHDL code for simulation
* Design the burst-mode asynchronous controller using the minimalist CAD(Computer Aided Design)

“Linux Kernel development”, Columbia University Fall 2012

* Added Linux Kernel System Calls and implemented read-write lock logic by spin lock and semaphore
* Injected a Symmetric Multiprocessor Weighted Round-Robin Scheduler to original scheduler framework

“Let Me See NYC website”, Columbia University Fall 2012

* Built the itinerary generating logic and implementated a website on **XAMPP**
* Implement the Yelp **API** and SeetGeek **API** to download and calculate event and restaurant data
* Using **UML Modeling** and **Agile development**(pair-programming)

“Database of Soccer Team”, Columbia University Fall 2011

* Worked on Relation/Entity Diagrams, SQL Schema to manage information about the soccer team
* Implemented the schema in **Oracle**, using **SQL PLUS**: Create Tables, insert tuples, write desired queries

“Lattakia” Fall 2011

* Built a compact functional language “Lattakia” in a team of four
* Wrote the annotated grammar in the format similar to the C-language-manual
* Tested the Java implementation of the lattice library and decreased running time of the code by 32%

“Automatic Vending Machine”, Beijing University of Posts and Telecommunications Fall 2010

* Designed and implemented the vending machine system in **Java**

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| Languages: | C; Java; SQL; JavaScript; PHP; Python; HTML; JSON; VHDL |
| Tools: | XAMPP, Cakephp, Git |
| Operating Systems: | UNIX, Windows and Mac OS X |

* Served as a team leader for three and designed **UML** **use cases** of Specification and their relations

**SKILLS**

**AWARDS**

“Best Business Model Winner” Team-winner in 30+ teams on “Devfest” hackathon, Columbia U Spring 2012