

# YIFAN LI

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## EDUCATION

### Columbia University, Fu Foundation School of Engineering and Applied Science

MS in Computer Science

MS in Electrical Engineering

New York, NY

Expected December 2012

December 2011

### Beijing University of Posts and Telecommunications, International School

### Queen Mary, University of London

BS in Electrical Engineering

Beijing, China

London, U.K.

June 2011

#### Relevant Coursework:

Advanced Logic Design

Analysis of Algorithm I

Database implementation

Software Engineering

Enterprise Management

Introduction to Database

Introduction to Unix

Mobile Human-Computer Interaction

Java Programming

Programming Fundamentals (C Programming)

## INTERNSHIP EXPERIENCE

### Siemens

#### Data Analyst Intern

Beijing, China

Summer 2010

- Utilized Microsoft Excel to keep SUB document in file
- Mastered the operation of Oracle software to maintain the company's database

## PROJECT EXPERIENCE

### Columbia University

New York, NY

#### "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)

#### "Database of Soccer Team"

Fall 2011

- Created a database of player information for a fictional soccer team
- Worked in team of two on Relation/Entity Diagrams, SQL Schema
- Implemented it on Oracle, using SQL PLUS: Create Tables, insert tuples, write desire queries

#### "Report on Automatic Predicate Abstraction of C programs"

Fall 2011

- Gave an informal one hour talk on Alfred V. Aho's class about the "most influential PLDI paper"
- Prepared report paper and presented technical details of SLAM to class on second talk

### Beijing University

Beijing, China

#### "Automatic Vending Machine"

Spring 2010

- Served as a team leader for three and designed use cases of Specification and their relations
- Obtained the graphical presentation of use case employing Visual Paradigm
- Programmed 527 lines of code in java and tested them

#### "Artificial Immune System"

Spring 2010

- Researched the particular computationally intelligent system for undergraduate project
- Wrote a java program of 835 lines of code adopting negative and clonal selection method
- Analyzed the running time and defended my thesis on final presentation

## ACTIVITIES

### Columbia University

New York, NY

#### "Devfest 2012 by Application Development Initiative (ADI)"

Spring 2012

- Worked in a team of four on the project "ResearchMatch", the "Best Business Model" winner

## SKILLS

**Languages:** C, Java, JavaScript, SQL

**Technologies:** Eclipse, Oracle SQL Server, Visual Paradigm, Altera Quartus