

# YIFAN LI

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## Graduate Study

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

MS in Computer Science

Expected December 2012

*Relevant Coursework:*

Analysis of Algorithms

Introduction to Database,

Introduction to Unix

Programming Language and Translators

## 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
- Designed 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 football team
- Worked in team of two on Relation/Entity Diagrams, SQL Schema
- Implemented it in **Oracle**, using SQL PLUS: Create Tables, insert tuples, write desire queries

“Programming Language Project-Lattakia”

Fall 2011

- Built a compact functional language “Lattakia” in **OCaml**, based on the idea of lattice
- Wrote the annotated grammar in the format similar to the C-language-manual

## Undergraduate Study

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

Beijing, China

BS in Telecommunications and management (Joint Program)

June 2011

B.S. with 1st class Honor degree, QUEEN MARY, UNIVERSITY OF LONDON

*Relevant Coursework:*

Java Programming

Software Engineering

C Programming

Internet Protocol

## PROJECT EXPERIENCE

“Artificial Immune System”

Spring 2011

- Researched a particular computationally intelligent system that mimicked a human immune system
- Wrote in Java a program to check the existence of a string using the negative and clonal selection

“Automatic Vending Machine”

Spring 2010

- Built the software implemented in a vending machine adopting software engineering convention
- Served as a team leader for three and designed use cases of Specification and their relations

## INTERNSHIP EXPERIENCE

**Siemens**

*Data Analyst Intern*

Summer 2010

- Utilized Microsoft Excel to file SUB documents
- Maintained company’s database using Oracle software

## ACTIVITIES

Devfest 2012

Spring 2012

- Built the website based on **Heroku**, to help students and professors match their projects
- Worked in a team of four on the project “ResearchMatch,” named “Best Business Model” winner
- Persuaded the professors to put their projects’ information on our website: [Award winning website](#)

Member of IET(The Institution of Engineering and Technology)

Fall 2007-Present

## SKILLS

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**ProgrammingLanguages:**

C, Java, JavaScript, SQL, Ocaml, Git

**Applications:**

Eclipse, Oracle SQL Server, Visual Paradigm