

# Harry (Chenguang) Liu

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## OBJECTIVE

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Seeking a Software Engineer Summer Intern position with strong object-oriented software engineering skills, abilities and experiences to contribute to the ongoing success of company.

## EDUCATION

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**University of California San Diego** La Jolla, CA Sep 2016 - Present  
Master of Science, Computer Science GPA: 3.67

Relevant Courses: Probabilistic Reason & Learning, Algorithm Design and Analysis, Principles of DataBase Systems, Principles of Computer Operating Systems, Advanced Compiler Design, Recommender Systems & Web Mining.

**Fudan University** Shanghai, China Sep 2012 - Jul 2016  
Bachelor of Science, Microelectronics GPA: 3.50

Relevant Courses: Program Design, Object-Oriented Programming, Fundamentals of Computer Software (Data Structures & Software Engineering), Computer Architecture, Principles of Microcomputer and Interface.

## PROFESSIONAL SKILLS

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<b>Advanced Programming Languages</b>	C++, C, Python.
<b>Other Programming Languages</b>	Java, perl, SQL.
<b>Applications</b>	Visual Studio, Xcode, Eclipse, Subversion, VIM, GDB, Qt, MySQL.
<b>Operating Systems</b>	Unix, Linux, Mac OSX, Windows.

## INTERNSHIP EXPERIENCE

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**Software Engineering Intern** Jul 2015 - Aug 2016  
*Fudan Microelectronics Group Co., Ltd, Shanghai China*

- Developed and tested a C++ software application for Electronics Design Automation System to analyze bit stream generation and configuration on both Linux and Windows platform.
- Designed, developed and tested a C++ software application to configure and setup FPGA using JTAG protocol on a team of 3 and improved application runtime performance by optimizing data packaging and data transmission algorithms, performing better than Xilinx's iMPACT software finally.
- Designed, developed and tested a C++ software application to generate and modify bit stream to configure FPGA on a team of 4. Responsible for some software test jobs, including bit stream generation error checking and automation unit/functional test for the FPGA EDA design flow by script in perl and tcl language.

## PROJECT EXPERIENCE

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**Dataflow Analysis Framework (C++/LLVM)** Winter 2017  
*Advanced Compiler Design*

- Designed and Developed a dataflow analysis framework for program analyses and optimizations in compiling using LLVM framework in C++.

**Recommender Systems (Python)** Winter 2017  
*Recommender Systems & Web Mining*

- Built a recommender system to make helpfulness and rating predictions related to reviews of Clothing, Shoes, and Jewelry on Amazon using latent-factor model in Python.

**Artificial Intelligence Gomoku Game (C++/Qt)** Fall 2014  
*Object-Oriented Programming*

- Designed and Developed a C++ Gomoku (five-in-a-row) game using AI programming in Qt framework on Mac OS.

**Autopilot Robot (C)** Spring 2015  
*Principles of Microcomputer and Interface*

- Designed and Developed an autopilot robot with intelligence to navigate to the appropriate destination by using feedback from 8 IR sensors.