

Yunfan Wang

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EDUCATION

Carnegie Mellon University, School of Computer Science

M.S. in Information Technology, Privacy Engineering

Pittsburgh, PA

Aug. 2016 - Aug. 2017

San Jose State University, College of Engineering

Exchange Program in Computer Engineering

GPA: 3.875/4.00

San Jose, CA

Aug. 2015 - May 2016

Beijing University of Technology, College of Computer Science

B.S. in Computer Science and Technology

GPA: 3.89/4.00

Beijing, China

Sep. 2012 - June 2016

ACADEMIC PROJECTS

Bomberman, a strategic, maze-based online game (Team of 2)

Spring 2015

Data Communication & Synchronization, Account System, Chat System, User Interface

- Applied C++ and Windows API including Sockets, Direct2D and Open Database Connectivity (ODBC) to create a Client-Server Architecture multiplayer online game
- Used I/O Completion Ports to efficiently process multiple asynchronous I/O requests on a multiprocessor system
- Handled race condition by Mutual Exclusion and Critical Section
- Utilized the Lockstep strategy to implement the synchronization between players

C-to-Assembly Compiler (Team of 3; Team Leader)

Spring 2015

The Parser, Symbol Table, Error Detection, Code Optimization

- Implemented the Declaration, Assignment, Basic Operators and Control Flow
- Utilized Lex to generate the lexical analyzer and Yacc to generate the parser
- Build a Symbol Table to store variable names
- Completed Error Detection and Code Optimization

MIPS CPU in a Xilinx FPGA (Individual Project)

Fall 2014

Single-Cycle, Multi-Cycle and Pipeline Implementation, Interrupt and Exception Handling

- Implemented a MIPS CPU with 50 instructions, pipeline, interrupt and exception using Verilog HDL
- Downloaded all the codes onto a Xilinx FPGA with the ISE and ran successfully
- Developed a timer using this MIPS CPU and a Seven-Segment LED

SKILLS

Computer Languages

C, C++, Java, Swift, Python, Perl, Verilog HDL, Assembly

Protocols & APIs

STL, WIN32 API, MFC, WPF, Direct2D, Socket, IOPC, ODBC

Web

ASP .NET, J2EE (JDBC, EJB, RMI, JSP, Servlet), HTML, CSS

Databases

MySQL, JDBC, Microsoft SQL

Methods & Tools

Design Pattern, UML, Git, Visio, L^AT_EX

IDE

vim/gcc, Visual Studio, Eclipse, NetBeans, Android Studio, Xcode

Language

English (Fluent), Mandarin (Native Speaker)

AWARDS & HONORS

ACM-International Collegiate Programming Contest(ACM-ICPC):

ACM-ICPC Asia Regional Contest Shanghai Site 2014, **Bronze Medal**

Dec. 2014

ACM-ICPC Asia Regional Contest Anshan Site 2014, **Bronze Medal**

Oct. 2014

ACM-ICPC Xian Invitational Programming Contest 2014, **Silver Medal**

May 2014

ACM-ICPC Beijing Invitational Programming Contest 2014, **Silver Medal**

May 2014

ACM-ICPC Asia Regional Contest Changchun Site 2013, **Bronze Medal**

Dec. 2013

The IEEEExtreme Programming Competition 7.0, **Global Ranked 18th**

Oct. 2013

The IEEEExtreme Programming Competition 6.0, **Global Ranked 29th**

Oct. 2012

2015 IBM Excellent Student Scholarship

Nov. 2015