Xiaoyu (Justin) Liu

4082 Mahaila ave. #C, San Diego, CA 92122   xjustinliu@gmail.com   310-755-5026   https://justinxliu.github.io

EDUCATION

University of California, San Diego   Expected Graduation Date: June, 2015
B.S. Computer Engineering   Major GPA: 3.6
B.S. Applied Mathematics

RELEVANT COURSES

Object-Oriented Programming, C & Assembly Language, Advanced Data Structure, Algorithms,
Advanced Software Engineering, Operating System, Artificial Intelligence, Machine Learning, Entrepreneurship
Honors Linear Algebra, Real Analysis, Game Theory, Combinatorics, Numerical Analysis, Data Analysis

EXPERIENCES

CSE Tutor

UCSD - Computer Science and Engineering Department   2014-2015
• Tutor students in "Advanced Data Structures in C++" and "Artificial Intelligence"
• Assist students with programming issues and AI theory

Computer Science Intern

SDSC - San Diego Super Computer Center   Fall, 2014
• Build Java/Scala application to process over 280k protein structures
• Use Apache Spark on Gordon(supercomputer) for distributed in-memory processing

Software Engineering Intern

Teradata - Parallel Database Extension   Summer, 2013
• Kernel Tools Team: Re-designed and implemented debugging tools to support panic dump analysis
• Modified crash, a UNIX-like kernel crash dump facility, to read kernel statistics and structures in O(1)

ORGANIZATIONS/COMMUNITY

Facebook Open Academy - Open source contributor
• Contribute to SWI-Prolog project, a free Prolog environment.

AUVSI - Association for Unmanned Vehicle Systems International
• Framework design and application development using .NET and OpenCV

SOFTWARE PROJECTS

E-Connect (In Development) - A kickstarter-styled website built on WordPress
Square - A mini game using open-source game engine Kiwi.js and LeapMotion controller
CSE Class Project - Chat System - Distributed chat system using Spring with a focus on agile methods and team work

SKILLS

Language: Java***, Scala**, C***, C++**, Prolog*, JavaScript*, Html*, R*, Verilog*
OS: Linux, Windows, Android
(***-Advanced **-Proficient *-Basic)

HONOR/ LEADERSHIP

• College Ambassador - events planning and execution   Fall, 2012
• UCSD Provost's Honors   2012 - 2014
• Top 1% in the AMC 12 high school mathematics contest   2010