

Xiaoyu (Justin) Liu

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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

Real Analysis, Game Theory, Combinatorics, Numerical Analysis, Data Analysis, Optimization(Grad)

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)

SOFTWARE PROJECTS

UCSD E-Connect (In Development) - A kickstarter-styled website for UCSD entrepreneurs

- Implemented back-end functionality using PHP and MySQL,

CSE Class Project: BlueJay - A check-in system

- Help to create and maintain a build pipeline utilizing Gulp, Travis CI and Heroku

UCSD-AUVSI: Association for Unmanned Vehicle Systems International

- Framework design and application development utilizing OpenCV and Visual Studio

Facebook Open Academy: SWI-Prolog - Open-source contributor

Square - A mini game using open-source game engine Kiwi.js and LeapMotion controller

SKILLS

Language: Java***, Scala**, C***, C++**, R**, Prolog*

Concepts: Machine Learning, Software Engineering, Web Development, Mathematics

(***-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