

Alex Wu

EXPERIENCE

JUNE 2015 – AUGUST 2015

Software Engineer Intern

Civis Analytics

Wrote StatsD library, created a Docker image, and decided on architectural decisions/backends for StatsD. Collected key metrics with the library in the Rails application. Analyzed platform data using machine learning techniques. Wrote a wiki to explain collecting stats as well as using stats. Helped redesign website for launch.

MAY 2014 – MAY 2015

Software Engineer Intern

The MITRE Corporation

Improved image processing program usability and efficiency while working with team and end users to write program documentation. Learned FORTRAN in order to convert legacy programs into C for better portability.

SEPTEMBER 2013 – JANUARY 2014

Research Assistant

Department of Computer Science

Learned Android and iris recognition methods in order to work with infrared camera to develop recognition app.

PROJECTS

MAY 2014 – PRESENT

Computer Graphics

Model Viewer

Javascript/WebGL 3D .obj viewer showcasing different computer graphics concepts.

NOVEMBER 2014 – DECEMBER 2014

Cloud Computing

MongoDB Scalability

Deployed MongoDB and Node.js on EC2 instances and developed simple API for database requests. Tested MongoDB performance by vertical and horizontal scaling and using HTCondor to simulate client load.

JUNE 2015

Battlehack Chicago

dmr

Developed a method of using MapReduce in a more distributed manner by sending Javascript mapper functions and data over WebSockets to browsers.

AWARDS

2nd Place Bloomberg Codecon St Andrews, Spring 2015

Best Healthcare Hack HackIllinois, Spring 2014

3rd Place Notre Dame Mobile Hackathon, Fall 2012

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EDUCATION

2012 – 2016 **University of Notre Dame**
B.S., COMPUTER SCIENCE
GPA: 3.79, Dean's List All Semesters

SPRING 2015 **University of St Andrews**
STUDY ABROAD

ACTIVITIES

APRIL 2014 – PRESENT

Organizer

IrishHacks

Work on bringing a hackathon to Notre Dame in fall 2014. Coordinate with team and sponsors.

AUGUST 2015 – PRESENT

Peer Advisor

College of Engineering

Help guide first year students through the engineering curriculum and adjust to life as a college student in general.

AUGUST 2013 – APRIL 2015

Multicultural and Web Page Commissioner

Siegfried Hall

Promote cultural diversity in residence hall. Redesigned website for more responsive design.

AUGUST 2012 – MAY 2014

Tutor

Learning Resource Center

Tutored students in Chemistry and Physics.

SKILLS

COMFORTABLE WITH C, C++, Java, Python, Javascript, Node.js, Ruby, Rails, PHP, HTML/CSS, SQL, bash, TCP/IP, git, svn

FAMILIAR WITH Haskell, Perl, Objective-C, AngularJS, Jekyll, Flask, Hadoop, AWS, Docker, WebGL, MongoDB, L^AT_EX, FORTRAN, MATLAB