Education

University of California, Berkeley

Electrical Engineering and Computer Science (EECS) Major

- UC GPA: 3.977, Technical GPA: 3.977, EECS GPA: 4.00
- Honors: Etta Kappa Nu (HKN) Member, Tau Beta Pi (TBI) Member, Kraft Award for Freshman winner, PennApps Fall 2013 Finalist
- **Coursework:** Linear Algebra and Differential Equations, Data Structures, Signals and Systems, Discrete Math and Probability • theory, Machine Structures, Artificial Intelligence, Algorithms, Machine Learning, Digital Signal Processing, Computer Graphics

Work Experience

Northrop Grumman Corporation

Software Engineering Intern

Worked with Software Engineering team on mission control software

- Wrote test code for Delaunay Triangulation Algorithm edge cases •
- Participated in the Airplane Design and Remote Control Course

Mattel Corporation

Global Information Technology Intern

Implemented PrePlan Database and user interface

Projects

Texit (http://tex.sh/) - RESTful LaTeX rendering and graphing API for websites and markdown. Built on Flask. (PennApps Finalist Entry)

MMO (https://github.com/Arctangent1759/MMO) - A simple online role playing game. Node.js and HTML5. (Work in progress) Social Alarm Clock (http://wakemeupbeforeyougogo.herokuapp.com/) - Alarm that employs peer-based motivation to wake users

MIPS Processor - A two-stage pipeline 16-bit computer that runs an implementation of the MIPS ISA, built with Logisim Matrix Multiply - Used the OpenMP framework, blocking strategies, and loop unrolling to optimize a matrix multiplication algorithm Scheme Interpreter - A recursive interpreter for the Scheme programming language, written in python

Pac-Man AI - A planning agent that finds optimal solutions to the game of Pac-Man using the A* search algorithm

Network AI - An implementation of Game Tree Search with Alpha-Beta pruning for the connect-four-like game of Network

Activities

Global Internships @ Berkeley

Webmaster and Board Member

Develop and maintain organization server and website

- Maintain internship database scripts and search service
- Advise board on website and technical matters •

Hackers@Berkeley

Member

Learn practical hacking and industry standard development practices from experienced members

- Projects available at https://github.com/Arctangent1759
- Attended tech talks and API workshops

Technical Skills

Programming Languages: Java, Python, C, Javascript, HTML5, MIPS, Shell, LabVIEW, Visual Basic, MATLAB API Proficiencies: Django, Node.is, JQuery/AJAX, Bootstrap, Android, Phonegap, Leap, Three.is, BeautifulSoup, Flask, OpenMP Development Environments/Workflow: vim, tmux, vimgdb, Eclipse, Netbeans, Microsoft Visual Studio, Github Misc: Nessus, Autodesk Inventor, GIMP

UC Berkeley March 2013-Present

UC Berkeley August 2012-Present

El Segundo, CA February 2012 - June 2012

El Segundo, CA November 2011 – January 2012

Berkeley, CA

Graduating May 2016