

# Scott Lee

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## EDUCATION

University of California, Berkeley

Expected Graduation Date: **May 2016**

B.S. Electrical Engineering and Computer Science and Statistics

**GPA: 3.3**

- Regents' and Chancellors' Scholar

PG&E Bright Minds Scholar

## COURSEWORK

- *Structure and Interpretation of Computer Programs (Python)*
- *Machine Structures*
- *Artificial Intelligence*
- *Efficient Algorithms and Intractable Problems*
- *Machine Learning\**
- *Data Structure and Algorithmic Analysis (Java)*
- *Discrete Mathematics and Probability Theory*
- *Introduction to Microelectronic Circuits*
- *Internet: Architecture and Protocols(Networks)*
- *Operating Systems\**

## SKILLS

- Python Java C JavaScript/HTML/CSS d3 Unit Testing Unix
- PHP GIT JQuery Ruby Ruby on Rails R (statistical learning) MIPS

## WORK EXPERIENCE

The Aerospace Corporation (Network Systems Software Intern)

06/14 – 08/14

- **Interactive Network Visualization Tool & GUI** – Interface to a program that simulates a defense network with nodes and links. Used Traits package and subprocesses in python to create GUI. **D3/JavaScript/HTML/CSS** to create interactive force-directed graph to simulate network; used **PHP** as server for communication between GUI and graph, to allow deletion of nodes/links from graph and output in GUI.
- **Network Performance in Cloud Computing** – Used **OpenStack** and **AWS** to perform extensive testing with both UDP and TCP, as well as iPerf, LookBusy, and other tools to simulate different scenarios and draw conclusions.

UCB IST-Telecommunications Network Operations and Services

09/14 - Present

- **Network Engineer Assistant**
- Installation, setup, and support of network infrastructure for UC Berkeley campus
- Ethernet switches, troubleshooting network problems, OSI layers model, TCP/IP, and Unix

## PROJECTS

<http://github.com/scottlandg6>

Music Transcription (Python, C) (Done at Calhacks in team of 4)

10/14

- Read music from an audio file (WAV or MP3), produce frequencies using FFT (C and Python), and convert notes.
- Attempted rhythm recognition and transcribes music into PDF format using lilypond.

Trip Finder (Java) (A\* Search & DFS/BFS)

11/13

- A client that takes in locations and distances and places them into graph structure.
- Uses A\* search to find the shortest path between inputted locations and prints out GPS-style directions. Implements breadth first traversal and depth first traversals.

Jumping Cubes with AI (Java)

10/13 – 11/13

- Two-person board game with N x N squares. Client takes in commands (set number of spots, size of board, etc.) and can print current state of board.
- Create an AI using MinMax/Alpha-Beta Pruning that must be able to force wins.

Pong (Python & SimpleGUI)

10/13 – 11/13

- Built the classic arcade game pong using python.
- Utilizes frames, canvases, and other options of SimpleGUI to build the interface of the game.

Hadoop/MapReduce (Java)

03/14

- Connect 4 game with AI (Minmax) Done with MapReduce framework from Hadoop.
- Ran on EC2 machine to analyze effectiveness of using more machines and efficiency of combiner.

ShowCam (Ruby on Rails) (Done at LA Hacks in a team of 4)

04/14

- Project at LA Hacks with a group of 4. Uses webcam to sense motion, records video when motion is sensed and uploads to webapp.
- Mostly worked on the webapp framework, using Ruby on Rails for backend/database and HTML/CSS/JS for front.

## INTERESTS/EXTRACURRICULARS

- Stocks (3 years) – Learned to make valued judgments and read market trends. (150% increase in portfolio)
- Hackers@Berkeley UCB Club/Team Badminton UCB League of Legends team Travelling/Exploring Writing