

# Jonathan Sun

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## EDUCATION

### UC BERKELEY

B.A. IN COGNITIVE SCIENCE  
 MINOR IN COMPUTER SCIENCE  
 Expected May 2018 | Berkeley, CA

### LYNBROOK HIGH SCHOOL

Grad. June 2014 | San Jose, CA

## SKILLS

### PROGRAMMING

Proficient:

Java • Python • SQL

Familiar:

C • PHP • JavaScript • HTML • CSS • R

### PLATFORMS & FRAMEWORKS

Linux • MySQL • SQLite • Laravel •  
 Android Development

### USEFUL TOOLS

Git •  $\LaTeX$  • Markdown

## COURSEWORK

- User Interface Design and Development
- Efficient Algorithms and Intractable Problems
- Database Systems
- Artificial Intelligence
- Computer Security
- Machine Structures (Computer Architecture)
- Data Structures & Algorithms
- Structure & Interpretations of Computer Programs
- Discrete Math & Probability Theory
- Computational Data Analysis

## AWARDS

- US Army Reserve National Scholar/Athlete Award (2014)

## EXPERIENCE

### SILICON VALLEY CHINESE SCHOOL | UI/UX WEB DEVELOPER

Summer 2017 | San Jose, CA

- Created internal web pages for student registration and keeping track of student records.

### VOICENT COMMUNICATIONS, INC. | SOFTWARE DEVELOPER INTERN

Summer 2016 | Mountain View, CA

- Designed the management websites that automatically fetches data and generates reports for the company's internal use as well as aggregate data from user profiles using SQL, PHP, and JavaScript.
- Performed QA product testing on new SaaS products, software updates, and filed bug reports.

### SILICON VALLEY CHINESE SCHOOL | UI/UX WEB DEVELOPER

Summer 2016 | San Jose, CA

- Created internal web pages for billing and keeping track of student records.

### UC BERKELEY | CS61A LAB ASSISTANT

Aug 2015 – May 2016 | Berkeley, CA

- Guided CS 61A students through labs, homework assignments, and projects.

## PROJECTS

### PHOTOANNOTATE | Java | Android Development

Photo Annotation Android App that allows users to take photos and annotate them.

### CRYPTOCONVERT | Java | Android Development

Cryptocurrency Converter Android App that allows users to convert currencies between USD, Bitcoin, and Dogecoin.

### PERSONAL WEBSITE | HTML, CSS, JavaScript, jQuery, PHP, Bootstrap

Personal website showcasing my experiences and projects. Created with HTML, CSS, JavaScript with jQuery and Bootstrap. Used PHP to check and direct user's messages to myself in the Contact Me page.

### WIZARD PARTY | Python, Bash Script, MiniSAT, SATisPy

A specialized SAT Problem solver that finds a topological ordering of people given constraints. This was done to solve a NP-Complete Problem.

### NETWORK ATTACK | Bash Script, C, Python, Wireshark, sslniff, Scapy

Performed an automated Network Attack on a Virtual Machine by that exploits FTP vulnerability, captures and analyzes packets, manipulates seeds in PRNGs, rewrites network traffic, and performs DNS spoofing.

### AI PAC-MAN GAME | Python, PyCharm

An intelligent Pac-Man that maximizes winning using Search Algorithms, CSPs, Minimax, Expectimax, Markov Decision Processes, Reinforcement Learning, Bayes' Nets, Hidden Markov Models, Inference, and Perceptron Classification.

### DATABASE SYSTEM | Java, SQL

Includes File Management, B+ trees, Simple Nested Loop Join, Page Nested Loop Join, Block Nested Loop Join, Grace Hash Join, Query Optimization, and Concurrency Control.