

# Jonathan Sun

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## Education

### University of California, Berkeley

Berkeley, CA

B.A. IN COGNITIVE SCIENCE, MINOR IN COMPUTER SCIENCE

Aug. 2014 - May 2018

- *Selected Coursework:* Database Systems, UI Design & Development, Artificial Intelligence, Computer Security, Efficient Algorithms & Intractable Problems, Computational Data Analysis, Machine Structures (Computer Architecture), Data Structures & Algorithms, Structure & Interpretations of Computer Programs, Discrete Math & Probability Theory

## Skills

**Languages** Java, Python, SQL, C, PHP, JavaScript, HTML/CSS, R, 𐤀𐤊𐤍𐤏𐤃, Markdown

**Other** Android Studio, RStudio, Linux, Laravel, Git, Firebase, Balsamiq, Adobe XD

## Work Experience

### SAP Ariba

Palo Alto, CA

FULL-STACK SOFTWARE DEVELOPER INTERN (INCOMING)

June 2018 —

- Incoming SAP iXp Full-Stack Software Developer Intern at SAP Ariba, a subsidiary of SAP SE.

### Silicon Valley Chinese School

San Jose, CA

UI/UX WEB DEVELOPER

June 2017 - August 2017

- Continued to work on the new internal website with HTML, CSS, JavaScript, and SQL.
- Collaborated with back-end developers and helped maintain database system.

### Voicent Communications

Mountain View, CA

SOFTWARE DEVELOPER INTERN

June 2016 - August 2016

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

### Silicon Valley Chinese School

San Jose, CA

UI/UX WEB DEVELOPER

July 2016 - August 2016

- Worked on a new internal website with HTML, CSS, JavaScript, and SQL.
- Collaborated with back-end developers and helped reorganize database system.

### UC Berkeley College of Engineering

Berkeley, CA

ACADEMIC INTERN: CS61A LAB ASSISTANT

August 2015 - May 2016

- Lab assist CS61A, UC Berkeley's introductory computer science class.
- Guided 60+ students in Lab sections and Office Hours through labs, homework assignments, and projects.

## Projects

### Wizard Party

Python, Bash Script, MiniSAT, SATisPy

- A specialized NP-Complete Boolean Satisfiability Problem solver that finds a topological ordering of people given constraints.

### Network Attack

Bash Script, C, Python, Wireshark, sslniff, Scapy

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

### AI Pac-Man Game

Python, PyCharm

- 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.

## Awards

2014 **Recipient, US Army Reserve National Scholar/Athlete Award**

San Jose, CA