# 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

Familiar:

C • PHP • JavaScript

### **PLATFORMS & FRAMEWORKS**

Android Studio • RStudio • Linux • Larayel • Git

### MARKUP/TEMPLATING

HTML • CSS • LATEX • Markdown

#### **DATA/DATABASES**

SQL • MySQL • SQLite • R

# 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 COLLEGE OF ENGINEERING | ACADEMIC INTERN

Aug 2015 – May 2016 | Berkeley, CA

- Lab assist CS 61A, UC Berkeley's introductory computer science class.
- Guided 40+ students in Lab sections and Office Hours through labs, homework assignments, and projects.

# **PROJECTS**

### **EAT2MEET** | Java, Android Development, Firebase

Android App designed to help users find friends in cities based on dining preferences and location. Places the group in custom chat rooms with real-time syncing powered by Google Firebase Realtime Database.

### GOLDENBEARCHAT | Java, Android Development, Firebase

Location-based chat rooms for UC Berkeley's Bear Landmarks on Android.

Determines user distance to landmarks from user GPS and Network Provider.

Real-time syncing for chat rooms powered by Google Firebase Realtime Database.

### 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, sslsniff, 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.

### Al 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.