

Jonathan Sun

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EDUCATION

UC BERKELEY

B.A. IN COGNITIVE SCIENCE
MINOR IN COMPUTER SCIENCE
Grad. 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 •
Laravel • Git

MARKUP/TEMPLATING

HTML • CSS • \LaTeX • Markdown

DATA/DATABASES

SQL • MySQL • SQLite • R • Firebase

PROTOTYPING

Balsamiq • Adobe XD

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

SAP Ariba | FULL-STACK SOFTWARE DEVELOPER INTERN (INCOMING)

Summer 2018 | Palo Alto, CA

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

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

PROJECTS

EAT2MEET | Java, Android Development, Firebase, Balsamiq, Adobe XD

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, 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.

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.