

# DAVID SONG

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## SKILLS

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Technical: Java, Python, C++, HTML/CSS, Swift, JS, OpenCV, Pandas, Dart, Flutter

Professional: Leadership, Event Management, Innovation & Futureproofing, Design Thinking

## EXPERIENCE

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### Surreal

*Software Engineer*

Stanford, CA

Sep 2018 | Present

- Prototyped AR iOS social platform to share geolocalized and persistent 2D drawings in real time
- Led team of four in need finding and rapidly iterating over prototypes
- Integrated VC, mentor, and customer feedback into solutions

### Granite Bay Robotics

*CEO*

Granite Bay, CA

Sep 2012 | June 2018

- Developed autonomous robot programs using PID feedback loops and OpenCV
- Managed 50+ engineers in prototyping, building, and shipping a robot for FRC
- Planned operations for technical training and fundraising the \$30,000 yearly budget
- Integrated and developed custom mechanical, electrical, and digital systems for robot mechanisms

### 10x Consultancy

*Software Engineer*

Roseville, CA

May 2018 | August 2018

- Designed and implemented custom web designs w/ Bootstrap
- Maintained WordPress websites and managed Linux VPS settings to host websites and services

### GB Summer Camps

*Director*

Granite Bay, CA

Feb 2015 | Sep 2017

- Managed volunteers and ran operations to admit and teach 100+ students
- Created and taught curriculum for programming, engineering, and entrepreneurship classes
- Raised over \$20k in funds for nonprofits in the community

## PROJECTS

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### Stock Trade Performance Analyzer *Python, Pandas, Flask, Web Scraping*

Developed MarketWatch P&L trade analysis tool to visualize performance over time. Reconstructed stock values over time to graph performance using 3rd party Yahoo Finance API.

### Life Glass Mac App *Swift, Objective C*

Implemented a menu bar tool to track and calculate time based on age. Stored user data in persistent data storage between sessions.

### Odd Even Betting Decentralized Application *JS, HTML / CSS*

Developed a decentralized application on the Nebulas blockchain for 50/50 betting. Designed web interface to interface with the Dapp using the Nebulas.js library.

## EDUCATION

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### Stanford University

BS Computer Science: AI Track

Stanford, CA

Sep 2018 - Jun 2022

**CS 106B: Programming Abstractions (C++)**

Sep 2018 - Dec 2018

**CS 107E: Computer Organization and Systems (C++)**

Jan 2019 - Mar 2019

**Machine Learning by Andrew NG (MatLab)**

Jan 2019 - Mar 2019

**ME 410: Innovation and Foresight by Bill Cockayne**

Sep 2018 - Dec 2018

**Stanford Summer Collegiate Robot Programming (Python)**

Jun 2015 - July 2015

### Granite Bay High School

**AP Computer Science A (Java)**

Sep 2014 - Jun 2018

Sep 2018 - Jun 2018