

# Daniel P. Wong

Castro Valley, CA & San Luis Obispo, CA

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## Education

### Cal Poly - SLO

San Luis Obispo, California

B.S. IN COMPUTER SCIENCE, MATH MINOR, IN MAJOR GPA: 3.50, OVERALL GPA: 3.46

Expected: Jun. 2019

- Involvement: Dean's List 2015/2017, White Hat Security Club, Computer Engineering Society

## Experience

### Sentient Energy

Santa Clara, California

SOFTWARE ENGINEER INTERN

Jun. 2017 - Sep. 2017

- Developed a platform that utilized **machine learning** to automatically tests all REST interactions on each nightly build using MySQL, Python, and Tensorflow
- Created scripts to parse all software being released to automatically populate databases required for the test cases depreciating manual database insertion
- Utilized Reinforcement Training to classify each call to automatically generate test cases for the REST calls resulting in **30%** less manual testing
- Designed a system that notifies the engineer who was responsible for the section of code that failed the verification process.

### Microcon

San Luis Obispo, California

SOFTWARE ENGINEER

Sep. 2016 - Jun. 2017

- Designed the frontend and the backend of the Employee Portal with NODE.JS, C#, and Microsoft SQL Server
- Developed complex SQL scripts to reduce query times by 15%
- Integrated the Employee Portal with eHRSuite to synchronize all data and information about the employees
- Reduced redundancies in the backend of the platform to increase scalability for the increasing number of clients

## Projects

### Facial Recognition Authentication for Clover Devices

San Francisco, California

BACK END ENGINEER

Jun. 2017 - Present

- Developed middleware for Clover Payment Devices to prevent fraudulent activity via Facial Recognition
- Developed a facial recognition program using TensorFlow to detect whether or not the user is the person authorized to use the credit card
- Integrated Clover's Android SDK to create a custom tender option that takes a picture of the person checking out to identify whether or not the person is fraudulent
- Deployed a server to handle the requests for authenticating a user from the Clover device
- Implemented Firebase to handle the intermediary exchanges between the user's data and classifier to authenticate a user correctly

### C Machine Learning Library

San Francisco, California

TEAM LEAD

Jun. 2017 - Present

- Designed commonly used machine learning models to support our Hackathon team's artificial intelligence applications
- Wrote a small scaled library in C to reduce overhead and redundancies commonly found in libraries created for higher level languages

### Text File Compression

San Luis Obispo, California

SOLO

Oct. 2016 - Nov. 2016

- Implemented Huffman Coding to compress text files in Java and C
- Designed complimentary encoding program to compress files into characters to serve an educational purpose for those learning how compression works

### Flash Card iOS Study Tool

San Luis Obispo, California

ENGINEERING LEAD

Oct. 2015 - Dec. 2015

- Developed an iOS application to help groups of students study together with a flashcard like application
- Used Swift and MongoDB to allow local and remote storage for the data necessary for the application

## Skills

**Programming** Python, C/C++, Scala, JAVA, Node.JS, Swift, C#, SQL  
**Web** Django with Python, Express with Node.JS, HTML5