

# Jeremy Cruz

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## Education

University of California, San Diego      Bachelor of Science      September 2014 - present

- Third year undergraduate student in Computer Science and Engineering

## Professional/ Employment History

Solar Interact      Data and Monitoring Team Leader      September 2016 - present

- Designed interactive Android interface of solar vs. electric themed game
- Interactive directory of UCSD's Price Center using Google Maps fragment
- Front end interactive game interface
- Back end data communication via Bluetooth between Arduino and Android
- Calculation of energy in watts generated through crank device

Solar Chill      Data and Monitoring Team Leader      September 2015 - September 2016

- Contributed to software design of solar powered student lounge and device charger
- Data communication and output through Arduino driven dot matrix via scrolling text
- Back end data structures for data communication written in C
- Calculation of carbon emissions saved over time

Church's Chicken      Shift Manager      Jan 2012 - September 2015

- Took initiative to write programs/ spreadsheets automating managerial tasks
- Financial and inventory management through software written using JApplet
- Team management and social skill building

## Certifications

### Web Design

- HTML
- Dreamweaver

### Computerized Graphic Design

- Photoshop
- Illustrator
- InDesign

## Skills

### C/ C++

- Built client database
- Implemented OOP

### Java

- Android programming
- Applets for machine learning and statistics
- Decompiled jar files

### Python

- Data mining using Scipy and Numpy
- Machine Learning

### Batch/ Shell/ Visual Basic scripting

- Task automation
- Linux based software installers

- Malware testing

### JavaScript

- Used with websites
- Basic programming

### SQL/ MySQL

- Relational databases
- Microsoft Access

### Software Development

- Debugging (GDB/ JDB)
- Thorough documentation

### Platforms

- Operating System principles
- UNIX based environment
- Programed using IDE
- Project management through GitHub