JEREMY CRUZ SOFTWARE ENGINEER

Phone: 1-619-866-1569 **Email:** iere.cruz519@g

<u>iere.cruz519@gmail.com</u> <u>http://crosscodes.biz</u> <u>ieremy-cruz-a6bb51110</u>

GitHub: idc011

Skill Set

Languages

С

C++ C#

Python

Java

JavaScript

Lua

SQL

HTML

CSS

XML

Batch Script

Shell Script

VBScript

Frameworks

Angular.js

Node.js

REST

RAIL CRUD

Bootstrap

.0

jQuery

Bluetooth

Socket

qRPC

pcap

KDIS

Tools

Visual Studio

Android Studio

Eclipse

PostgreSQL

Apache Tomcat

Firebase

Wireshark

Arduino Travis CI

GitHub

SVN

AllChange

Allonarige

Operating Systems

Windows

UNIX Linux

LIIIUX

Junos

Objective

New grad software engineer searching for opportunity in San Diego to contribute 3 years professional programming experience, broad skill set, and leadership to **software development**, **networked systems**, or **embedded systems**.

Website: LinkedIn:

Education

UC San Diego

September 2014 – June 2018

Bachelor of Science, Computer Science and Engineering

Experience

Cubic Global Defense

June 2017 - May 2018

Software Engineer Intern

- > Live Virtual Simulated Combat Training System
 - o Provided combat training system to Nellis Air Force
 - o Aided 2-way ground/ pilot communication via Distributed Interactive Simulation and pcap
 - o Ensured flow accuracy debugging multi-threaded applications
 - o Made mission monitoring graphical with web UI via Angular.js and JSON
 - o Eliminated major web server lag resulting to 92% faster speeds
- Network Communication
 - Helped monitor training with packet sniffing via Wireshark dissectors
 - Allowed user to see recorded ground/ air trends via human-readable packet core dumps
 - Optimized dissectors to quickly show outputs of up to 8 hours of mission recording time
 - Secured network with Junos configuration of DHCP with static IP tables

Engineers for a Sustainable World

October 2015 - June 2018

Software Team Lead

- Leadership Roll
 - Aided global sustainability holding agile scrum meetings to communicate goals and assign tasks
 - Ensured high quality releases with documentation, code reviews, CI pipeline, and mentoring
- Solar Interact
 - Provided navigation and sustainability education with embedded system
 - Helped visitors navigate Price Center with Android app utilizing Google Maps API
 - o Educated users on solar vs. electrical power efficiency via Android tablet and Arduino run game
 - o Made game fast with **Bluetooth** watt output on real-time graph via **Graph View**
 - Optimized game control via embedded Arduino programming of hand crank electrical generator
 Provided hands-on training and collaboration for structural, electrical, and software engineers
- Solar Chill
 - o Lessoned carbon emissions by 14.98% via solar powered charging station
 - o Implemented calculations API verifying energy use and efficiency in C
 - Verified cleanliness with displayed metrics via Arduino programmed LED scrolling text

Relevant Side Projects

Crosscodes Portfolio and Blog

December 2017 – present

- O Documented current career/ technical experience to showcase via website
- o Designed website user-friendliness and responsiveness with Bootstrap and jQuery
- Retained documentation of learnings, experience, and career advice via blog IoT Smart Fridge
 - o Limited food waste via OpenCV machine learning camera to count food with MongoDB
 - Kept user informed of near food expiration and shortage by texting user via Twilio
 Awarded SDHacks 2017 grand prize

GUI Machine Learning Applet

March 2017 - April 2017

October 2017

- Demonstrated machine learning algorithms for education with GUI applet in Java
- Aided user install/ uninstall of software via scripts on Windows and Linux OS's
- Designed user-friendly UI by reverse engineering API via Jad decompiler

Inventory Tracking Applet

December 2014 - January 2015

- Took initiative as restaurant shift manager by applying programming to reduce labor
- Reduced labor at Church's Chicken by 38% via Java applet automating inventory tasks
- Eliminated manual calculations via Java written food/ cash counts, variances, and shift statistics
- o Made data easy to report via save feature of Excel spreadsheets of outputs