JEREMY CRUZ
SOFTWARE ENGINEER

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Education

University of California, San Diego   September 2014 – June 2018
- ➢ Bachelor of Science in Computer Science and Engineering

Experience

Cubic Corporation   June 2017 – May 2018
Software Engineer Intern
- ➢ Aided Nellis Air Force with development of live virtual simulated combat training system
- ➢ Allowed system communication using **Distributed Interactive Simulation** protocol with **pcap**
- ➢ Helped monitor training/ mission trends via **Wireshark dissectors** with core dump feature
- ➢ Established network security via **DHCP** server with static IP table using **Junos**
- ➢ Made mission monitoring possible via web interface running **Angular.js**

Engineers for a Sustainable World   October 2015 – June 2018
Software Team Lead
- ➢ Led software teams in agile environment to contribute to global sustainability efforts
- ➢ Held scrum meetings to monitor progress, communicate goals and assign tasks
- ➢ Provided documentation, code reviews, and CI pipelines to ensure high quality releases

Projects

IoT Smart Fridge   October 2017
- ➢ Addressed food waste problem by programming camera to keep fridge inventory in **MongoDB**
- ➢ Emulated smart fridge via **OpenCV** machine learning to recognize food items and keep inventory
- ➢ Satisfied consumer needs via warning messages of expiration and shortages with **Twilio**
- ➢ Awarded SDHacks 2017 **grand prize**

Solar Interact   September 2016 – June 2018
- ➢ Established interactive solar-related educational game at UCSD with UI components via **XML**
- ➢ Aided visitors with navigation through interactive Android map utilizing **Google Maps API**
- ➢ Allowed watt management via **Bluetooth** controlled by **Arduino** to display on **Android** device

Solar Chill   September 2015 – September 2016
- ➢ Lessoned carbon foot print with solar powered student lounge + charging station
- ➢ Proved cleanliness of energy production with **Arduino** driven dot matrix scrolling text display
- ➢ Achieved **14.98%** less carbon emissions via solar energy versus electrical energy

GUI Classifier   March 2017 – April 2017
- ➢ Aided **machine learning** efforts with applet demonstrating classifier behaviors
- ➢ Wrote **Shell script** allowing user to install/ uninstall software on Linux/ Windows platforms
- ➢ Utilized decompiler to create UI components with educational graphics API

Managerial Applet   December 2014 – January 2015
- ➢ Shortened and automated managerial labor at Church's Chicken with applet
- ➢ Accomplished reliable cash and inventory counts via **Java**

Crosscodes   December 2017 – present
- ➢ Designed professional website using **Bootstrap**, **jQuerry**, and **JavaScript**
- ➢ Documented vital learnings in blog

Skills

Languages: C, C++, C#, Python, Java, JavaScript, Lua, SQL, HTML, CSS, XML, Batch, Shell, VBScript
Frameworks: Angular.js, Node.js, REST, RAIL, CRUD, Bootstrap, jQuery, Socket, gRPC, pcap, KDIS
Tools: Visual Studio, PostgreSQL, Apache Tomcat, Firebase, Android Studio, Wireshark, Git, SVN
Platforms: Windows, UNIX, Linux, Junos