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 – present
Software Engineer Intern
  ➤ Developed Live Virtual Simulated combat training system
  ➤ Utilized TCP/IP programming with Distributed Interactive Simulation protocols and PCAP
  ➤ Implemented IEEE standard packet dissectors in Lua
  ➤ Developed web interface with Angular.js

Solar Interact September 2016 – present
Software Team Leader
  ➤ Designed interactive solar energy related educational game
  ➤ Programmed interactive Android map utilizing Google Maps API
  ➤ Programmed Bluetooth communication between Android device and Arduino

Solar Chill September 2015 - September 2016
Software Team Leader
  ➤ Designed solar powered student lounge and device charger
  ➤ Designed data output through Arduino driven dot matrix via scrolling text
  ➤ Calculated result of 14.98% less carbon emissions via solar energy

Projects

IoT Smart Fridge October 2017
  ➤ Addressed problem of food waste by programming camera to keep fridge inventory
  ➤ Implemented machine learning algorithm with OpenCV to recognize food items
  ➤ Added feature to text user warning messages involving food inventory and expiration
  ➤ Awarded SDHacks 2017 grand prize

GUI Classifier March 2017 – April 2017
  ➤ Implemented Java GUI app demonstrating machine learning classifiers
  ➤ Designed UNIX-compatible installation feature
  ➤ Used custom graphics API

Managerial Applet December 2014 – January 2015
  ➤ Implemented Java GUI app created for managerial purposes at Church's Chicken
  ➤ Fulfilled managerial tasks involving cash and inventory count with output variances
  ➤ Used custom graphics API

Skills

Programming: C, C++, C#, Python, Java, JavaScript, Lua, OCaml, Prolog, gRPC, Applets
Web Development: HTML, CSS, SQL, Angular.js, Node.js, Bootstrap, Socket.io, Dreamweaver
Platforms: UNIX, Visual Studio, Android Studio, Eclipse, Wireshark, GitHub, SVN
Machine Learning: OpenCV, Numpy, Scipy, Data Mining
Graphic Design: Photoshop, Illustrator, InDesign
Scripting: Batch, Shell, VBScript