Umar Qattan

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SKILLS AND TOOLS

Swift (iOS), C, C++, Unix, MATLAB, Python, Ruby on Rails, Github, and AWS

EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA BARBARA – TRANSFER

JUNE 2012- JUNE 2014

Structure of Programming | Data Structures and Algorithms | Microelectronic Circuits | Materials Science and Engineering | Calculus Series | Linear Algebra and Differential Equations | Physics Series for Scientists and Engineers

UNIVERSITY OF CALIFORNIA, LOS ANGELES – B.S. COMPUTER SCIENCE

SEPTEMBER 2014- JUNE 2016

Algorithm Analysis | Computer Organization | Circuit Theory | Systems and Signals | Software Construction | Digital System Design

UDACITY - IOS DEVELOPER NANODEGREE

JUNE 2015 - AUGUST 2015

Storyboarding | UIKit | AVAudioPlayer | UIMapKit | Networking | iOS Persistence | iOS Core Data

EXPERIENCE

UNDERGRADUATE RESEARCHER – UCSB DEPARTMENT OF COMPUTER SCIENCE

JUNE 2012-DECEMBER 2012

Mentored by a PhD in Computer Science and Engineering to study embedded systems. Learned cryptography, digital logic design, discrete math, and object oriented programming.

SOFTWARE ENGINEER INTERN – PENANGO, INC., LOS ANGELES, CA

JUNE 2014-OCTOBER 2014

Developed Crypto algorithms for a web email client called Penango that secures emails sent and received by recipients with similar web certificates.

UNDERGRADUATE RESEARCHER, UCLA DEPT. OF BIOENGINEERING

DECEMBER 2014 - APRIL 2014

Worked with Dr. Tom Zangle on removing visual artifacts from cell images. Used MATLAB's Image Processing Toolbox to deconvolve the cell images.

PROJECTS

PENANGO, INC. PRODUCT AUTOMATION

Implemented an MVC based Ruby on Rails application to run the Penango, Inc. website and automated new user's Penango product license (AWS Route 53, AWS S3, Ruby on Rails).

QUADCOPTER CONTROLLER

Implemented an interface that live-streams quadcopter camera data to a web browser, allowing the user to control quadcopter (Node.js and AR Quadcopter).