

## Education

- **Carnegie Mellon University** Doha, Qatar  
*B.Sc Computer Science* 2009 – 2013
  - Major in Computer Science and a Minor in Business Administration
  - Research Honours: Pursuing a Senior Thesis in Mobile Application Security
  - Relevant courses: Distributed Systems, Embedded Systems, Algorithms

## Work Experience

- **CocoaNuts LLC** United States  
*CEO and Software Engineer* March 2010 – Present
  - Focused on enhancing user experience by bringing much needed features to existing applications on the iOS platform.
  - Developed and published several high-profile applications, including Celeste, YourTube and Safari Download Manager.
- **Dune Apps** Qatar  
*CEO and Software Engineer* November 2010 – September 2012
  - Launched first Mobile Application Development startup in the MENA region
  - Developed customized applications for large businesses and organizations in Qatar
- **Brancipater Software** United States  
*Founder and Software Developer* May 2008 – July 2010
  - Developed and published some of the first applications on the App Store.
  - Notable projects include TextGuru, the first iPhone text editor with copy-and-paste functionality, and FlowChat, a gorgeous chat client with a highly intuitive interface.

## Research Experience

- **Undergraduate Senior Thesis** Carnegie Mellon University  
*Mobile Application Security* Sep 2012 – Present
  - Researching automated malware detection on iOS using dynamic and static methods.
- **UREP, Qatar National Research Fund** Carnegie Mellon University  
*Computer Vision* Jun 2010 – Aug 2010
  - Developed an automated simulation analyzer for Laparoscopic Cholecystectomy using CV.
- **Networks and Systems Lab** Carnegie Mellon University  
*Delay Tolerant Networks* Jan 2010 – May 2011
  - Conducted research on opportunistic vehicular connectivity and in-situ WiFi networks.
  - Published a paper at the 2011 IEEE GCC Conference in Dubai.

## Technical Skills

- Programming Languages
  - C/C++, Objective C/C++, PHP, Javascript, Java, Standard ML, Haskell, Bourne Shell
- Operating Systems
  - FreeBSD, Mac OS X, GNU/Linux
- Security
  - Experience discovering security holes and vulnerabilities in production code on x86 and ARM-based systems

## Public Contributions and Open Source Projects

Contributer to BTstack project: open, light and portable Bluetooth stack. . . . . 2010 – Present  
Contributer to libsandcastle: sandbox evasion for iOS. . . . . 2010 – Present  
Developed gremlin: iTunes library import without iTunes . . . . . 2010 – Present  
Developed ARDPatcher: Mac OSX ardagent exploit patcher. . . . . 2009  
Developed WiSync: Wireless synchronization utility for iOS . . . . . 2008