Garrett Barboza

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Education

2009–2013	**BSc Computer Engineering**, *Carnegie Mellon University*, Pittsburgh, PA. Minor in Computer Science

Experience

Vocational

October 2011–Present	**Cofounder & Engineer**, *Kaprica Security*, Reston, VA. Helped found and bootstrap a mobile security startup. ○ Designed and built a hardware based solution for mobile platform security. ○ Ported initial solution to a variety of platforms for demoing purposes. ○ Developed embedded code and architecture to provide an intuitive user experience.
Summer 2011	**Security Intern**, *Lockheed Martin*, Arlington, VA. Worked in Internal Research and Development focusing on embedded systems from a security analysis standpoint.
Summer 2010	**Software Engineering Intern**, *Bay Controls*, Maumee, OH. Developed an Android application to remotely control internet enabled thermostats. ○ Integrated application with existing infrastructure. ○ Solely responsible for development of Android application.

Miscellaneous

September 2010 - Present	**Plaid Parliament of Pwning**. Member of Carnegie Mellon's computer security team. Primary focus of team is participation in computer security related events and competitions.
Spring 2013	**picoCTF**, *Carnegie Mellon University*, Pittsburgh, PA. Designed and ran a capture the flag security competition for high school students. ○ Over 5000 high school students competed during the course of a week. ○ Sponsored by the NSA

Skills

Specialty	Software Security, Systems Programming, Embedded Systems, Compilers
Programming Languages	C, Assembly, Python, Haskell, Javascript

Interests

Programming Languages	I am interested in research related to the design and implementation behind programming languages, specifically functional programming languages, and compiler construction.
Reverse Engineering & Vulnerability Research	I am interested in the analysis of software and systems from a security perspective. Specifically, attack and defense techniques related to compiled binaries and operating systems.