Miguel Yanez

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EDUCATION

COLUMBIA UNIVERSITY
MS in Computer Engineering
2014 - Expected 2016

BS in Computer Engineering
2009 - 2013

LINKS

Github:// **mayanez**
LinkedIn:// **mayanez**

COURSEWORK

GRADUATE
Big Data Analytics
Malware Analysis
Network Security
Embedded Systems
System on Chip
Computer Architecture

UNDERGRADUATE
Data Structures
Signal Processing
Circuit Analysis
Computer Networks
Programming Languages and Translators
Operating Systems

SKILLS

PROGRAMMING
C • Assembly (x86,ARM) • Java • Python
• OCaml • JavaScript • CSS • LaTeX

LANGUAGES
Spanish (Native) • Japanese
(Intermediate)

PROJECTS

FLIGHT SCRAPER
Flight Fare and Seat Availability Library
GitHub

CORAL
C like Object Relational Language
GitHub

WORK EXPERIENCE

AMAZON | Software Developer Engineer
July 2013 - January 2015
- Developed market specific features for Amazon India.
- Architected and implemented AmazonSupply business management backend systems using Java and proprietary Amazon tools.
- Built AmazonSupply business management web application using Spring framework.
- Architected HTTP routing framework for Quidsi web platform.
- Redesigned Quidsi backed to use Amazon services.

AMAZON | Software Developer Engineer Intern
June 2012 - August 2012
- Implemented a performance metric monitoring system on Kindle using Android and Hadoop.
- Worked on Kindle FreeTime of FireOS (http://goo.gl/iSMr0P).
- Developed Ruby on Rails web application to aid with metric visualization and analysis.

ACADEMIC EXPERIENCE

COMPUTER ARCHITECTURE AND SECURITY TECHNOLOGY LAB | Research Assistant
January 2015 - Present
- Analyze microarchitectural signatures for malicious software.
- Windows Kernel driver development and reverse engineering.
- Security and reliability of RTOS (Real-Time Operating System) on embedded devices.

1006 PYTHON PROGRAMMING | Teaching Assistant
January 2015 - May 2015
- Grade bi-weekly assignments.
- Hold recitation to teach programming practices.
- Hold weekly office hours for students to get help.

COLUMBIA INTRUSION DETECTION SYSTEMS LAB | Research Assistant
August 2012 - May 2013
- Determined vulnerabilities in embedded systems such as Cisco routers, VoIP phones, and firewalls.
- Designed and build database for processing and vetting firware images for vulnerabilities.
- Hacking Cisco VoIP phones: (http://youtu.be/f3zUOZcewtA).

1004 JAVA PROGRAMMING | Teaching Assistant
January 2012 – May 2013
- Held recitation sessions to teach students programming practices.
- Graded and created solutions to bi-weekly assignments.
- Held weekly office hours for students to get help.