Young Jin Yun

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Experience

Leidos Technical Research & Development Intern **2015**

- Led an independent research effort on developing a secure, cryptographically based firmware update turret system for IoT devices. Extensively utilized embedded ARM Cortex A7, M4, M3 devices, along with low level MMU optimization. Devices were coded in C. Implemented a local area cloud server to create a proof of concept for the OTA turret system.

Financial Team for SDHacks **2014-2015**

- Worked with other student organizers to plan and make possible UCSD's first official hackathon. Responsibilities included securing venues and sponsors for more than $300,000. SDHacks is expected to debut next Fall Quarter 2015.

Energy Specialist, Rising Sun Energy Center **Summer 2014**

- Distributed and installed energy-saving appliances such as LED light bulbs, CFL torchieres, aerators to over 360 households in the Fremont area.
- Extensively used communication skills to perform outreach to underprivileged clients at Tri-City Food Bank and thrift stores.

Education

University of California, San Diego **Expected Graduation: 2018**

Computer Engineering (CSE) **GPA: 3.6**

Relevant Coursework:

Data Structures & OOD: Performed case study analysis of approaches to Object-Oriented design in C, C++, Java, to recommend which approaches are best suited to solve programming problems. Projects involved implementing a stack-based calculator that evolved to utilize binary trees, circular linked lists, and hash tables, as well as analyzing each data structures' Big O efficiencies.

Algorithms & Systems Analysis: Mathematical tools for qualitative/quantitative analyses of algorithms and computer systems. Also explores mathematical theory of discrete structures useful for modeling and designing computational processes. Topics covered: enumeration, recurrence relations, graph theory, asymptotic notation, discrete probability.

Computation Organization & Systems Programming: Study of specific architecture/machine with emphasis on systems programming in C and Assembly with SPARC in a Unix environment. Topics covered include stack frame implementation in runtime (text/data/BSS/heap/stack), internal storage representation (byte ordering).

Intro to Analog Design: Fundamental circuit theory concepts, Kirchoff's voltage & current laws, Thevenin's and Norton's Theorems, loop and node analysis, time-varying signals, transient first order circuits, steady-state sinusoidal response. Included lab experience with equipment such as volt/ammeters and function generators.

Other courses: Intro to CS & OOP (Java), Software Tools & Techniques Laboratory (git, gdb, jdb, Makefile, bash)

Personal Projects

Personal Website

- Used Bootstrap, Javascript, CSS, HTML in order to create a personal website in one night at UCLA's Hackathon. Visit me at www.youngjinyun.com!

STEM Experience

FTC Robotics **2012-2014**

- Engineered solutions to integrate intuitive control schematics and structural robotic functions.
- Helped raise $1000+ in corporate donations from businesses ranging from Portwell Technology to the local daycare.

Skills

- Very familiar with C++/C, Java, vim, git, SPARC assembly.
- Network penetration testing w/ Kali Linux: live port sweep, nmap scan, metasploit, dictionary attacks, hydra
- Worked extensively with Linux w/ VMs (Ubuntu, Lubuntu, CentOS), iOS, Windows, OS X.
- Experience with Swift, Javascript, CSS, Bootstrap, Emacs, Eclipse, MySQL, Python, ARM assembly.

Activities

Hackathons: HackSC 2014, LAHacks 2015, SDHacks 2015