Young Jin Yun

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Education

University of California, San Diego **Expected Graduation: 2018**
Computer Engineering (CSE) Provost Honors FA'14 – SP'15 GPA: 3.62

Experience

Leidos Inc. **La Jolla, SU '15**
Technical Research & Development Intern La Jolla, CA

- 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 MMU optimization.
- Worked with senior engineers and implemented proof of concept for the over-the-air turret system. Communications secured with proprietary TLS/SSL libraries compressed and optimized for RTOS usage on Particle Photon boards.
- Penetration testing with routers.

Personal Projects

You See SD **FA '15**

- Location sharing and graphing application that displays heat map of densely populated areas of UCSD campus, using location data from smartphones. Coded at SDHacks 2015, plan on finishing and polishing up.
- Utilized HTML/CSS, JS, some PHP with Google Maps API with MySQL server
- Visit at campathon.mybluemix.net!

Personal Website **SP '15**

- 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!

Leadership and Activities

SD Hacks **2014-15**
Financial Team Corporate Sponsorship Outreach

- 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. Personally secured $10,000 of funding.

Global TIES: Digital Vision Screening **FA '15**
Crescent Detection Team Lead, Webmast

- Image analysis and detection of crescent-shaped refractive errors indicative of myopia, amblyopia, astigmatism.
- Responsible for organizing team group photo, uploading and maintaining DVS's description, member list.

Skills

- Experience with C++/C, Java, vim, git, SPARC assembly, Linux VMs (Ubuntu, Lubuntu, CentOS), HTTP/CSS
- Network penetration testing w/ Kali Linux: live port sweep, nmap scan, metasploit, dictionary attacks, hydra.
- Some familiarity with Javascript, Python, Bootstrap, Swift, MySQL, ARM assembly, PHP

Relevant Coursework

Advanced Data Structures

- High performance data structures and supporting algorithms, with use and implementation of (un)balanced trees, graphs, priority queues, and hash tables. Memory Management, advanced pointer usage, recursion.
- Theoretical and practical performance analysis, including average case and edge case.

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.
- Explored mathematical theory of discrete structures useful for modeling and designing computational processes. Topics covered: enumeration, recurrence relations, graph theory, asymptotic notation, discrete probability.

Intro to Analog Design

- Fundamental circuit theory, time-varying signals, transient first order circuits, steady-state sinusoidal response.
- Lab experience with equipment such as volt/ammeters and function generators.