



Education

Drexel University

Bachelor of Science Candidate in Computer Engineering
Bachelor of Science Candidate in Electrical Engineering, Electronics
Cumulative GPA: 3.58 | In Major: 3.63

Philadelphia, PA
Anticipated Graduation — June 2013

Honors and Awards

Android app “Textspansion” — **5400+ Downloads**
“Best Text Expansion App for Android” — Lifehacker.com
Dean’s List (5x)
A.J. Drexel Scholarship Recipient
National Society of Collegiate Scholars Member

Experience

Apr – Sep 2012

Lockheed Martin MS2 in Moorestown, NJ

Coop Technical Senior — Information Assurance (IA)

- Scan mission-critical systems for vulnerabilities with automated and manual tools
- Harden mission-critical systems by applying updates and patches
- Research new scanning software to comply with changing DoD standards requirements
- Write Excel plugin to format data for vulnerability database system
- Coordinate with senior engineers and senior executives for weekly status updates
- Create departmental wiki for tool documentation and usage tips

Mar – Sep 2011

Lockheed Martin MS2 in Moorestown, NJ

Coop Technical Senior — Computer Infrastructure Integration & Testing (CIIT)

- Wrote Bash scripts to expedite deployment and integration processes
- Developed, tested, and documented backup procedures for servers, diskless & iSCSI disk-based nodes
- Worked alongside Sr. Engineers in development of Cisco IOS applet to monitor CF cards containing critical ship status information
- Wrote VBA script to categorize 4000+ pieces of equipment for proposal
- Refreshed firmware update procedure deployed to soldiers and used on 100+ systems within LM
- All work used on US Government Secret classified systems

Mar – Sep 2010

ACIN (Applied Communications and Information Networking) in Camden, NJ

Researcher, Directed by Dr. William Regli and Jeff Salvage

- Configured and tested four-node homogeneous networking testbed
- Established stable multi-node MANET with WPA2-Preshared Key and IPSec encryption
- Contributed to VoIP plugin for C2MINCS¹ Situational Awareness software
- Configured several networks for the 2010 C4ISR² OTM (On the Move) excursion in Ft. Dix, NJ
- Completed performance testing for commercial 802.11g wireless adapters and military SRW³ JTRS⁴
- Represented ACIN at the 2010 Team C4ISR Symposium and Expo in Baltimore, MD
- Communicated directly with project sponsors from US defense contractor CERDEC

Jul 2009 – Mar 2010

GICL (Geometric and Intelligent Computing Lab) in Philadelphia, PA

Lab Assistant, Directed by Dr. William Regli

- Part of team that built and populated Engineering Format Registry
- Designed and coordinated CD production for 2009 SIAM⁵/ACM⁶ joint conference
- Set up sandbox server with extended MediaWiki installation
- Created custom “Semantic Infobox” template using Semantic MediaWiki
- Utilized SUMO⁷ and UNSPSC⁸ ontologies in a Semantic Template
- Organized and inventoried journal publications, computer parts, and other hardware

¹Command and Control Mobile Intelligent Net-centric Computer System²Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance³Soldier Radio Waveform⁴Joint Tactical Radio System⁵Society for Industrial and Applied Mathematics⁶Association for Computing Machinery⁷Suggested Upper Merged Ontology⁸United Nations Standard Products and Services Code



Projects

Textspansion — Text expansion for Android devices
Released June 2011, under continued development
Boot2Gecko — Exploring port to HTC Ace (Desire HD/Inspire 4G)
OS built but won't boot — init.rc is incorrect
Notman — Linux D-Bus notification manager in Python & PyGTK
Proof-of-concept complete, shelved
YADA ("Yet Another Dropbox App") — Hash-based client/server file sync in C
Completed for school assignment, development ceased
MetronOSH — Arduino-based Open Source Hardware metronome (similar to Boss DB-88)
Submitted to 2011 Open Hardware Summit scholarship contest, on indefinite hold
RADuation Cap — 8x8 RGB LED array on graduation cap
In initial design phase, to be used in June 2013

Skills

Languages

- C
- Java
- L^AT_EX
- Bash & Zsh
- Python
- Perl (a bit rusty)

Networking Protocols

- Gatewaying
- HTTP
- Mobile Ad-Hoc Networking
- Multicast
- TCP/IP
- UDP
- WPA & WPA2

Software & Toolkits

- Linux CLI Toolchain
- Vim
- Git, Mercurial, Subversion
- Android SDK
- Arduino
- Wireshark
- GNU Make

Operating Systems

- Linux (Arch, RHEL, Ubuntu)
- Unix (Solaris 9)
- Mac OS (10.5, 10.6)
- Windows (95+)