John D. Duncan, III

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https://github.com/JohnDDuncanIII   https://dataswamp.org/~john/

Work Experience

Massachusetts Institute of Technology: Lincoln Laboratory   Summer 2016
Research Intern (Secret Clearance)

> Worked with the Humanitarian Assistance and Disaster Relief Systems Group (Division 4 Group 44) on the **Local Evacuation Alert Verification** (LEAV) program for **HURREVAC-eXtended** (HVX). Wrote and designed an Android application for end users (LEAV) and a javascript module for the Emergency Manager front-end (HVX). Presented my work to the 50+ team group at the end of the summer. The FEMA/DHS sponsor for the project was pleased with the outcome. Agile development cycle. Participated in DHS/FEMA defense workshop. Slides located here.

Gettysburg College Computer Science Department   Summer 2015
Intern

> Worked with Professor Chuck Kann developing a Gettysburg Monuments mobile app and website.

Lakewood Country Club   Summer 2014
Outdoor Services

> Maintained driving range, ensured operation of carts, and cleaned member clubs & bags.

SysArc   Summer 2012
Intern/Maintenance Technician

> Helped troubleshoot technology issues with client user accounts & maintained servers.

Domino's Pizza   2009-2013
Insider (Part-Time)

> Worked part-time while in High School training new hires, preparing orders, taking phone orders, and operating cash register. Team Member of the Period PD13 12

Education

Gettysburg College, Gettysburg, PA
B.S. in Computer Science Honors (3.60) **and Philosophy** Honors (3.73)   May 2017
Outstanding Computer Science Student, Class of 2017
Dean's Honors List   Fall 2015/2016, Spring 2017
Dean's Commendation List   Fall 2013

Computer Science

Capstone *Adam's Wellness Family Connection Website*   Adviser: Dr. Rod Tosten

- Presented seven colloquia for the department
- Represented the Computer Science Department during the Spring 2016 Get Acquainted Day.
- Organized two "Hour of Code" sessions at the College for local students in the Adams County area.

Philosophy

Thesis *Virtual Futures: Virtuality as Political Praxis*   Adviser: Dr. Lisa Portmess
Capstone *Infinite Horizons: The World to Mind Question*   Adviser: Dr. Daniel DeNicola
- Co-moderated a Philosophy Department Socratic Club Seminar about the future of work.

Eisenhower Institute Undergraduate Fellow

Program offers a select group of Gettysburg College students the chance to develop their leadership skills and their knowledge & understanding of public policy
- Researched and wrote the 'New Technologies' section for the group **State Department Diplomacy Lab** White Paper on Health Care Records in Mixed-Migration settings. We presented our findings to workers from the *Office of Economic Security, International Health and Biodefense Population, Refugees, and Migration* at the State Department.
    - Physical research for this project included: a trip to the United Nations, meetings with experts in Europe, and a meeting with resettled Syrian refugees in Pennsylvania.

- Co-organized and moderated two panels that detailed current issues in public policy, national security, and refugee rights.

- Gave a presentation about our 2016-2017 activities to the EINAC (Eisenhower Institute National Advisory Council). Members of the EINAC include the granddaughter of a past U.S. president, the president of Gettysburg College, a member of the 9/11 Commission, and other notable alumni/donors.

Technical

Languages	**Go**, **Java**, **Javascript**, C/**C++**
	some Visual Basic, Mips ASM, Scheme R5RS, and Python.
Web	**HTML5**, **CSS3**, **XUL**, **DOM**, Jira
	some Ruby, PHP, and Perl
	JSON, **GIS**, **REST**, AJAX, geoJSON
	net/http (go webserver), Apache, Lighttpd, Nginx
	Flat File Databases, some SQL
	upspin, https, irc, gopher, nntp, ftp, ldap
Tools	**Git**, Hg, Svn, Cvs
	Emacs, L^AT_EX, **Regex**, **Gimp**, Blender
	XPCOM, **Android SDK**, EXT-JS
Unix/Plan9	Sh, Rc, Awk, Sed
	Linux, OpenBSD, macOS, Gcc, Clang, GNU
	ffmpeg, cygwin, xquartz, pkg-src, homebrew, macports
Images/3d	png, gif, jpeg, blit ikon, xbm, xpm, x-face, base64, picons, gravatar, ogre3d

- Competent using UNIX-like systems, the command line interface, system configuration, and shell scripting. Also able to set up a basic home file server in Windows and Unix environments, setting up a multi-router switch, and end-user local area network in Cisco Packet Tracer and with real hardware.

- Disclosed a bug in the Gettysburg Campus Navigation Portal (CNAV) electronic record keeping system. The bug allowed any standard user to delete any other user account from a CNAV mailing list.

- Discovered that all account images are being publicly leaked to the web by the CNAV server. Received a cash award.

- Portfolio: `http://cs.gettysburg.edu/~duncjo01/assets/portfolio.html`

Presentations

Talks (more info: `http://cs.gettysburg.edu/~duncjo01/assets/about.html`)

- Socratic Club Seminar (future of work)   Spring 2017
- Computer Science Capstone Colloquium   Fall 2016
- Internship Colloquium   Spring 2016, Fall 2016
- Computer Science Department "Get Acquainted Day"   Spring 2016
- Hitchhiker's Guide to Computer Science Colloquium   Fall 2015/2016, Spring 2016
- Gettysburg College Celebration   Spring 2015/2017

Planned/Moderated

- Programming Competition Colloquium   Spring 2017
- Student Solidarity Rally   Spring 2017
- EI Panel: Lady Liberty's Poor and Huddled Masses: *Rethinking Refugees in America*   Spring 2017
- EI Panel: We Want You...Or Do We? *A Panel on Refugees & Asylees Coming to the U.S.* Fall 2016
- We Won't Stand for Hate at Gettysburg College   Fall 2016
- Political Debate   Fall 2015/2016, Spring 2016
- Hour of Code Colloquium   Fall 2015/2016

Governance

Gettysburg Association for Computing Machinery (ACM) chapter

- Vice President   2016-2017
- Secretary   2015-2016
- Attended weekly senate meetings as a student representative   2015-2017

Gettysburg College Independents

- Treasurer   2016-2017
- Organized (wrote questions, planned events, moderated) three political debates between the College Democrats and College Republicans.

Languages

English	native
French	proficient (written and spoken)
Spanish	elementary (101 and 102)

References

Contact information for references available upon request.

Charles Rose	Associate Technical Staff	MIT Lincoln Laboratory
Dr. Todd Neller	Professor	Gettysburg College Computer Science Dept.
Dr. Charles Kann	Adjunct Professor	Gettysburg College Computer Science Dept.
Dr. Lisa Portmess	Professor	Gettysburg College Philosophy Dept.