John D. Duncan, III

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Work Experience

TS/SCI Clearance (CIA)   In Progress

Massachusetts Institute of Technology: Lincoln Laboratory   Summer 2016
Research Intern

> 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). Centralized all continental U.S. evacuation zones into one database. Reduced WFS-T call size by multiple orders of magnitude. Presented my work to the broader Group 44 at the end of the summer. The FEMA/DHS sponsor for the project was pleased with the outcome. Participated in a DHS defense workshop. Agile development cycle. Slides located here. Supervisor's Assessment available upon request.

Gettysburg College Computer Science Department   Summer 2015
Intern

> Worked with Professor Chuck Kann developing a Gettysburg Monuments mobile app (published to the Google Play Store) 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

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

Domino's Pizza   2009-2013
Insider

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

Education

B.S. in Computer Science Honors **(3.60) and Philosophy** Honors **(3.73)**   May 2017
Gettysburg College, Gettysburg, PA

Outstanding Computer Science Student Award   Class of 2017
Eisenhower Institute Undergraduate Fellow   2016-2017
Dean's Honors List   Fall 2015/2016, Spring 2017
Dean's Commendation List   Fall 2013

Computer Science

Capstone *Adam's Wellness Family Connection Website Team Project*   Adviser: Dr. Rod Tosten
- Presented **seven colloquia** to the department and broader Gettysburg community.
- Represented the Computer Science Department during the **Spring 2016 Get Acquainted Day**.
- Organized & facilitated two "**Hour of Code**" sessions for local students in the Adams County area.
- Managed **three teams** that completed academic Android applications (two of which were published).

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.
- Writing samples available upon request.

Eisenhower Institute Undergraduate Fellowship

Program offers a select group of eight Gettysburg College students the chance to develop both their **leadership skills** and **knowledge & understanding of public policy**. Our 2016-2017 research focus was domestic refugee 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, dinners, and meetings with experts in Europe and resettled Syrian refugees in Pennsylvania.

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

- Gave a presentation detailing our 2016-2017 activities to the EINAC (Eisenhower Institute National Advisory Council) in Washington, D.C. 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**, **Javascript**, **Java**, **C++**, C
	some Visual Basic, Mips ASM, Scheme R5RS, and Python.
Web	**HTML5**, **CSS3**, **XUL**, **DOM**, **XPCOM**, Jira
	some Ruby, PHP, and Perl
	JSON, **GIS**, **REST**, WFS, AJAX, geoJSON
	net/http (Go webserver), Apache, Lighttpd, Nginx
	NoSQL, some SQL
Protocols	**upspin**, https, irc, gopher, nntp, ftp, ldap
Tools	**Git**, Hg, Svn, Cvs
	Emacs, **GIMP**, **Regex**, LaTeX, Blender
	Android SDK, EXT-JS
Unix/Plan9	**Sh**, **Sed**, Rc, Awk
	GNU/Linux, Android, macOS, OpenBSD, GCC, Clang
	ffmpeg, cygwin, xquartz, pkg-src, homebrew, macports
Images/3d	png, gif, jpeg, xbm, xpm, x-face, base64, blit ikon, geoworks bit, picons, gravatar, ogre3d

- Disclosed two bugs in the Gettysburg Campus Navigation Portal (CNAV) electronic record keeping system. The first bug allowed any user to delete any other user account from a CNAV 'group' (mailing list). The second bug leaked all internal account images to the web. Received a cash award.

- Extensive visual portfolio of both professional and side projects located on the web: `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 Debates	Fall 2015/2016, Spring 2016
• Hour of Code Colloquia	Fall 2015/2016

Governance

Gettysburg Association for Computing Machinery (ACM) chapter

• Vice President	2016-2017
• Secretary	2015-2016

Gettysburg College Independents

• Treasurer	2016-2017

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

Gettysburg Anti-Capitalist Collective

- All-encompassing leftist political organization. We organized debates, planned events and rallies, distributed zines, and participated in various campus activism projects.

References

Charles E. Rose	*Associate Technical Staff*	MIT Lincoln Laboratory
Dr. Todd W. Neller	*Professor*	Gettysburg College Computer Science Dept.
Dr. Charles W. Kann, III	*Adjunct Professor*	Gettysburg College Computer Science Dept.
Dr. Lisa Portmess	*Bittinger Professor of Philosophy*	Gettysburg College Philosophy Dept.