

John D. Duncan, III

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Work Experience

CIA TS/SCI Clearance 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 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, processing phone calls, preparing orders, and operating the 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 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 two “**Hour of Code**” sessions at the College for local students in the Adams County area.
- Managed **three teams** that completed 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, L^AT_EX, Regex, Gimp , Blender Android SDK , EXT-JS
Unix/Plan9	Sh, Rc, Awk, Sed GNU/Linux, OpenBSD, macOS, 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

- 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 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). According to the Vice President of IT on campus, the bug lay dormant since he himself wrote that portion of the CNAV server software in the mid-1990s. 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 here: <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
- Attended weekly student senate meetings as a club 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.

Gettysburg Anti-Capitalist Collective

- Catch-all political organization for students whose views were further left than those of the College Democrats. Organized debates, planned events, and participated in various campus activism projects.

Languages

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

References

Contact information for references available upon request.

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