

# John D. Duncan, III

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## Work Experience

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### 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

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### 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

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#### 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

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<b>Languages</b>	<b>Go, Java, Javascript, C/C++</b> some Visual Basic, Mips ASM, Scheme R5RS, and Python.
<b>Web</b>	<b>HTML5, CSS3, XUL, DOM</b> , Jira some Ruby, PHP, and Perl <b>JSON, GIS, REST, AJAX</b> , geoJSON <b>net/http</b> (go webserver), Apache, Lighttpd, Nginx <b>Flat File Databases</b> , some SQL <b>upspin</b> , https, irc, gopher, nntp, ftp, ldap
<b>Tools</b>	<b>Git</b> , Hg, Svn, Cvs <b>Emacs, L<sup>A</sup>T<sub>E</sub>X, Regex, Gimp</b> , Blender <b>XPCOM, Android SDK, EXT-JS</b>
<b>Unix/Plan9</b>	Sh, Rc, Awk, Sed Linux, OpenBSD, macOS, Gcc, Clang, GNU ffmpeg, cygwin, xquartz, pkg-src, homebrew, macports
<b>Images/3d</b>	png, gif, jpeg, blit ikon, xbm, xpm, x-face, base64, picons, gravatar, ogre3d
<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Discovered that all account images are being publicly leaked to the web by the CNAV server. Received a cash award.</li> <li>• Portfolio: <a href="http://cs.gettysburg.edu/~duncjo01/assets/portfolio.html">http://cs.gettysburg.edu/~duncjo01/assets/portfolio.html</a></li> </ul>	

## Presentations

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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

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### 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

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

## References

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Contact information for references available upon request.

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