

# John D. Duncan, III

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## Work Experience

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**TS/SCI Clearance with Full Scope Polygraph (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 final 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

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

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

## 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.
- Led **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 Fellow

Program offers a select group of eight Gettysburg College students the chance to develop their **leadership skills** and knowledge & understanding of **public policy**. Our research focus was refugee policy and our adviser was **Dr. Shirley Anne Warshaw**, Harold G. Evans Chair of Eisenhower Leadership Studies.

- Researched and wrote the ‘New Technologies’ section for our **State Department Diplomacy Lab** White Paper on **Health Care Records in Mixed-Migration settings**. We presented our findings to 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 both experts in Europe and resettled Syrian refugees in Pennsylvania.
- Co-organized and moderated two panels that detailed current issues in **public policy, national security, civics, and refugee rights**.
- Gave a presentation detailing our research 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 donors and alumni.

## Technical

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<b>Languages</b>	<b>Go, Javascript, Java, C++, C</b> some Python, Mips ASM, Scheme R5RS, Emacs Lisp, and Visual Basic.
<b>Web</b>	<b>HTML5, CSS3, XUL, DOM, XPCOM, Jira</b> some Ruby, PHP, and Perl <b>JSON, GIS, REST, WFS, AJAX</b> , geoJSON <b>net/http</b> , Apache, Lighttpd, Nginx <b>NoSQL</b> , some SQL
<b>Protocols</b>	<b>upspin</b> , https, irc, gopher, nntp, ftp, ldap
<b>Tools</b>	<b>Git</b> , Hg, Svn, Cvs <b>Emacs, GIMP, Regex, L<sup>A</sup>T<sub>E</sub>X</b> , Blender <b>Android SDK</b> , EXT-JS, OpenLayers, Google Maps API, Maven, Gradle
<b>Unix/Plan9</b>	<b>Sh, Sed, Awk, Grep, Rc</b> GNU/Linux, Android, macOS, Darwin/XNU, OpenBSD, GCC, Clang ffmpeg, cygwin, xquartz, pkg-src, homebrew, macports, fink
<b>Images/3d</b>	png, gif, jpeg, xbm, xpm, x-face, base64, blit ikon, geoworks bit, picons, gravatar, ogre3d

- Extensive visual portfolio of both professional and side projects located on the web: <http://cs.gettysburg.edu/~duncjo01/assets/portfolio.html>
- Disclosed two bugs extant 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.

## 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 Debates Fall 2015/2016, Spring 2016
- Hour of Code Colloquia Fall 2015/2016

## Governance

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### Gettysburg Association for Computing Machinery (ACM) chapter

- Vice President 2016-2017
- Secretary 2015-2016

### Gettysburg College Independents

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

### Gettysburg Anti-Capitalist Collective

- Organized debates, events & rallies, distributed zines, and participated in campus activism projects.

## References

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