

JOHN D. DUNCAN, III

13109 Brushwood Way, Potomac, Maryland 20854
240-688-7187

duncjo01@gettysburg.edu | github.com/JohnDDuncanIII

Work Experience:

- Massachusetts Institute of Technology Lincoln Lab – Paid Internship, *Boston, Massachusetts* Summer 2016
- Working with Group 44 (Humanitarian Assistance and Disaster Relief Systems Group) w/ a DoD Clearance
- Gettysburg College Computer Science Department, *Gettysburg, PA* – Paid Summer employment Summer 2015
- Worked with Professor Kann to create the *Gettysburg Monuments Map* application mentioned below.
- Lakewood Country Club, *Rockville, Maryland* – Paid Summer employment Summer 2014
- Outdoor Services – Maintained driving range, ensured operation of carts, and cleaned member clubs/bags.
- SysArc, *Rockville, Maryland* - Paid Internship Summer 2012
- Maintenance Technician – Helped troubleshoot maintenance issues with client user accounts & servers.
- Domino’s Pizza, *Potomac, Maryland* – Paid part-time/year round employment May 2011 – August 2014
- Cashier/Cook – Trained new hires, prepared orders, answered phones, operated cash register.

Education:

Gettysburg College – Computer Science – B.S. degree expected *spring 2017* – Gettysburg, PA – Major GPA: **3.70**

Honors and Activities: *College*

- **Dean’s Honors** List – Fall 2015, **Dean’s Commendation** list – Fall 2013
- *Recipient of the David A. Wills Scholarship*, Gettysburg College (\$10,000 per year)
- *Eisenhower Institute Undergraduate Fellow 2016-2017* – Program offers a select group of Gettysburg College students the chance to develop their leadership skills and their knowledge & understanding of public policy.
- *Fall 2015* – Secretary of the Gettysburg Chapter of the Association for Computing Machinery (ACM)
- *Summer 2015* – Paid Summer internship under Professor Charles W. Kann, III - Created a Gettysburg Battlefield companion application using Javascript and OpenLayers 3 to map points and data onto the Gettysburg battlefield. Published to the [Google Play Store](#) as “**Gettysburg Monuments Map**” and featured on the [Gettysburg College Homepage](#). On the web at <http://historicgettysburg.us/>
- *Fall 2014 to Winter 2015* - Designed, implemented, and coded an Android application to play the classic solitaire-based card game “**Poker Squares**” (utilizing a Native Abstract Reinforcement Learning (NARL) Artificial Intelligence player created by my adviser Dr. Todd W. Neller).
- *Fall 2013* - Designed, implemented, and coded an Android application called “**Red Light Race,**” published to the [Google Play Store](#) (utilizing a neural network approximately player created by Dr. Todd W. Neller and Marcin Malec (‘13) of Gettysburg College). Featured on the [Gettysburg College Homepage](#) for my work.

Thomas Wootton High School – Graduated June 2013 – Rockville, MD

Accepted into Wootton’s Academy of Information Technology (AOIT) sponsored by National Academy Foundation.

Only student in class of 2013 to complete **Programming** (eight semesters) and **Networking** (two semesters) pathways.

Honors and Activities: *High School*

- **AP Scholar with Honors:** Received a score of 4 on the Computer Programming A, Language & Composition, and Literature & Composition exams and a 5 on Comparative Government & Politics Exam.
- Participated in two national **networking** and **cybersecurity competitions**, including the Cyber Foundations Fall 2011 Competition (ranking 87 out of 1,217 participants), and the Cyber Foundations Spring 2012 Competition (ranking 83 out of 615 participants and a class ranking of 2nd out of 16).

Computer Skills:

- Completed Computer Science II, Computer Organization and Assembly Language Programming, The Mathematics of Computation, Data Structures, Game Engine Design, Computer Networks, Survey of Programming Languages and Parallel and Distributed Processing at Gettysburg College.

- Adept at **procedural** programming, abstraction, recursion, object oriented programming, encapsulation, inheritance, polymorphism, disguising, and design patterns using the **Java** programming language. Also proficient in the **C++** programming language. Exposed to Microsoft Visual Basic, Ogre 3d, **LaTeX**, GNU TeXmacs, Scheme R5RS, and Python. Familiar with **Eclipse**, Android Studio, Visual Studio, xCode, and **emacs** development environments.

- Proficient at setting 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.

- Proficient using UNIX-like systems, the UNIX command line interface, UNIX configuration, and shell scripting.
- Open source contributions include: small contributions to the *SeaMonkey*, *WindowMaker*, and *pkg-src* projects.
- Smaller projects and contributions available on GitHub profile.
- **Hobbies:** Design (user interface, software), philosophy (of software, knowledge), music, programming, open source, history (particularly technology/web related, ancient)

Language: Proficient in French – Attended French immersion elementary school (K-5)