

Daniel Hopkins

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EDUCATION -----

Haverford College, HAVERFORD, PA

B.S. candidate Computer Science May 2016

- **Related coursework:** Data Structures, Discrete Mathematics, Linear Algebra, Computer Architecture, Analysis of Algorithms, Mobile Development, Theory of Computation, Scientific Computing, Programming Languages, Statistics
- **Senior Thesis:** TBD Fall 2015 **Major GPA:** 3.517

TECHNICAL SKILLS -----

Proficient in Python, Java, JavaScript, HTML, CSS, MATLAB, Android Development

Familiar with Ruby, C++, SQLite, Bootstrap, Flask, Git, Django, all major operating systems and mobile platforms

RELATED EXPERIENCE AND PROJECTS -----

Organic Spectra web application, CHEMISTRY DEPARTMENT – HAVERFORD COLLEGE

Summer 2015

- Built a web application to accelerate organic spectroscopy learning for undergraduate chemistry students with an emphasis on scalability. Users watch tutorials, followed by timed questions about relevant material. Questions are available for self-scheduled review and tailored material is available in spaced intervals to maximize long-term memory retention.

PAVE Android application, MOBILE DEVELOPMENT – HAVERFORD COLLEGE

Spring 2015

- Programmed and designed an Android application for Philly Activists and Volunteers Exchange. Users can browse and subscribe to activist organizations via simple lists, maps, and Tinder-style cards. Subscribed organizations are highlighted on the user's personal map, and up-to-date Facebook event information is available. Currently available on the Google Play store at <https://goo.gl/8hfjc4>. Group project with two others.

U Up web application, TRI-CO HACKATHON HONORABLE MENTION

Jan 2015

- Built a web application that enables students to form impromptu study groups, get food together, hang out, and more. Pitched as a platform for any sort of group activity. Group project with four others.

Registrar Scheduling algorithm, ANALYSIS OF ALGORITHMS – HAVERFORD COLLEGE

Fall 2014

- Developed an algorithm that identifies optimal schedules for Haverford College class offerings that maximize student satisfaction given a set of constraints. Group project with two others.

16-bit HERA Microprocessor design, COMPUTER ARCHITECTURE – HAVERFORD COLLEGE

Fall 2014

- Designed a CPU using wires, logic gates, and modularity with Logisim in a semester-long project.

Risk game, DATA STRUCTURES – HAVERFORD COLLEGE

Spring 2013

- Applied knowledge of data structures to develop a port of the board game Risk. Group project with two others.

LEADERSHIP AND OTHER EXPERIENCE -----

IT Support Specialist, IITS PRODESK – HAVERFORD COLLEGE

Jan 2014 – present

- Troubleshooting, hardware and network configuration, client interaction and services for the college community.

Go! Boards website, FIG COMPUTING – HAVERFORD COLLEGE

Sept 2014 – present

- Member of a student organization engaged in collaborative computer science projects to benefit the college community. Update and maintain Haverford College's web discussion forum.

President, LIGHTING AND SOUND CREW – HAVERFORD COLLEGE

Sept 2012 – present

- Manage 20 student employees. Lighting and sound tech coordinator for campus events.

CS 105 Grader, COMPUTER SCIENCE DEPARTMENT – HAVERFORD COLLEGE

Fall 2014

- Graded and provided instructive comments for Introduction to Computer Science assignments.