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
- **Thesis:** Phrase Structure Rules in Extraction-Based Automated Summarization **Major GPA:** 3.517

TECHNICAL SKILLS

Proficient in Python, JavaScript, Java, HTML & CSS, Android Development, HERA
Familiar with C++, Ruby, R, MATLAB, Scheme, Bootstrap, NoSQL (Parse), SQLite, Flask, Git, Linux

RELATED EXPERIENCE AND PROJECTS

Organic Spectra web application, CHEMISTRY DEPARTMENT – HAVERFORD COLLEGE — May 2015 – present

- Built a web application to accelerate the learning of organic spectroscopy with an emphasis on scalability. Users participate in tutorials and answer timed questions about relevant material. Self-scheduled review material is available, as well as tailored material available in spaced intervals to maximize long-term memory retention. We plan to use this product in introductory chemistry classes at Haverford during the 2015-2016 academic year.

PAVE Android application, MOBILE DEVELOPMENT – HAVERFORD COLLEGE — Spring 2015

- Designed and produced an Android application for Philly Activists and Volunteers Exchange (PAVE). Users browse and subscribe to local social justice organizations via personalized Google Maps. Facebook event integration allows users to receive up-to-date information about the organizations they've subscribed to.
- Enabled the organization to update app content via Google Sheets integration for simple maintenance. The beta version of PAVE is now available on Google Play at https://goo.gl/8hfJc4. Group project with two others.

U Up web application, HONORABLE MENTION – TRI-CO HACKATHON — Jan 2015

- Created a web application that enables students to form impromptu study groups, hang out, order food, and more. We utilized a standard web development stack with Flask and Bootstrap. Group project with four others.

Registrar Scheduling algorithm, ANALYSIS OF ALGORITHMS – HAVERFORD COLLEGE — Fall 2014

- Developed an algorithm to identify optimal schedules for class offerings that maximize student satisfaction given a set of constraints. The results and findings are being considered by the college Registrar for future implementation in Haverford schedule creation. Group project with two others.

HERA Microprocessor design, COMPUTER ARCHITECTURE – HAVERFORD COLLEGE — Fall 2014

- Designed a 16-bit CPU using wires, logic gates, and module creation in a semester-long project.

LEADERSHIP AND OTHER EXPERIENCE

IT Support Specialist, IITS PRODESK – HAVERFORD COLLEGE — Jan 2014 – present

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

President, LIGHTING AND SOUND CREW – HAVERFORD COLLEGE — Sept 2012 – present

- Manage 25 student employees. Lighting and sound tech coordinator for campus events.

Go! Boards website, FIG COMPUTING – HAVERFORD COLLEGE — Sept 2014 – May 2015

- Maintained Haverford's web discussion forum as a member of a student organization engaged in collaborative computer science projects to benefit the college community.

CS 105 Grader, COMPUTER SCIENCE DEPARTMENT – HAVERFORD COLLEGE — Fall 2014

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