

BARRETT OLSON

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EDUCATION

University of Michigan, Ann Arbor, Michigan Sept. 2013 – May 2017 (Expected)

Bachelor of Science, Computer Science & Organizational Studies

- GPA 3.78/4.00
- James B. Angell Scholar

Relevant Coursework:

- EECS 381: Object-Oriented & Adv. Programming
- EECS 281: Data Structures & Algorithms
- EECS 388: Intro. to Computer Security
- EECS 482: Intro. to Operating Systems
- EECS 485: Web Databases & Info. Systems
- ECON 401: Intermediate Microeconomics

EXPERIENCE

JOOL Health

May 2016 – Aug. 2016

Quality Assurance/Software Development Intern

- Designed, implemented, and maintained a cross mobile platform automated testing regression suite
- Improved and extended the primary Android and iOS mobile applications
- Attended and contributed to weekly technical and planning meetings with CTO and Senior Engineers

University of Michigan EECS Department

Sept. 2015 – present

Teaching Assistant for EECS 280, Programming & Data Structures

- Composing course wide discussion materials for over 650 students
- Holding weekly discussion sections, office hours, and co-leading two exam reviews a semester
- Hiring and managing a 12 person grading team
- Designing and testing course programming projects and writing, proctoring, and grading exams
- Collaborating with three other TA's to create the course auto-grader and its web interface

Michigan Community Scholars Program

Sept. 2013 – present

Program Resident Advisor, (formerly Chair on the Intergroup Relation Council, Peer Advisor)

- Facilitating two weekly discussions sections on critical thinking, social justice, and community service learning
- Promoting diversity, leadership, education and social justice at the University and in local communities
- Preparing monthly events and dialogues for 200 community members and 1035 residents

optiMize Social Innovation

Sept. 2014 – Aug. 2016

Vice President of Operations

- Managed a \$40,000 budget and handled internal organizational affairs
- Recruited, oversaw, and lead a 35-member student team
- Planned and implemented a 20 event, 150-day, Social Innovation Challenge
- Established precedents for success metrics, post event evaluation and statistics

SKILLS & PROJECTS

- **Experience with C, C++, Python, Flask, Ruby, HTML, CSS & JavaScript**
- **Secure photo-sharing web app**
Using a Python Flask framework with a JavaScript restful API
- **C++ Thread Library**
Implemented a thread library with fully functional mutexes & conditional variables
- **Personal Website** – barrettolson.com
On-going development, primarily used to receive student and resident feedback and to provide course materials