

# MICHAEL S. SAUGSTAD

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## RELEVANT EXPERIENCE

### Data Scientist & Software Developer

June 2018 - Present

University of Maryland Computer Science Department, College Park, MD

- Leading software development on Project Sidewalk, an online tool for large-scale virtual auditing of urban accessibility; working with Prof Jon Froehlich.
- Maintaining and updating the tool's Scala/Postgres back-end infrastructure.
- Leading data analysis for the project, using R and Javascript.
- Mentoring 3 undergraduate and highschool students on the team.

### Research Assistant

June 2017 - May 2018

University of Maryland Computer Science Department, College Park, MD

- Led software development and data analysis for Project Sidewalk using Scala, Postgres, R, and Javascript; worked with Prof Jon Froehlich.

### Teaching Assistant

Aug 2016 - May 2017

University of Maryland Computer Science Department, College Park, MD

- Mentored and assisted 75 students with Java and OOP concepts.

### Research Assistant

Jan 2015 - May 2016

Vassar College Computer Science Department, Poughkeepsie, NY

- Implemented reactive indoor navigation using dynamical systems.
- Integrated existing Python code base into the ROS ecosystem.
- Redesigned robot's vision to utilize Kinect depth sensor.

### Research Intern - Quality of Life Technology NSF REU

May 2015 - Aug 2015

Carnegie Mellon University Robotics Institute, Pittsburgh, PA

- Developed C++ software for socially acceptable autonomous robot navigation.

## EDUCATION

**University of Maryland, College Park**, College Park, MD

M.S. in Computer Science

May 2018

GPA: 3.84

**Vassar College**, Poughkeepsie, NY

B.A. in Mathematics and Statistics, Computer Science

May 2016

GPA Overall: 3.79 Majors: 3.86

## COMPUTER SKILLS

Proficient: R, Scala/Java, Python, Javascript, C++, Postgres/SQL, Git, LaTeX, Linux

Familiar: Haskell, C/UPC, OpenMP, MPI, Play, Scheme, ROS, Windows

## AWARDS AND LEADERSHIP

**Recipient**, Dean's Fellowship, Dept of Computer Science, UMD

Aug 2016, 2017

**Recipient**, Janet Holdeen-Adams Prize, Dept of Computer Science, Vassar

May 2016

**Co-chair**, Computer Science Majors Committee, Vassar

Sept 2014 - May 2015

**Captain and Treasurer**, Quidditch Team, Vassar

Sept 2013 - May 2014

**Co-founder**, Quidditch Program – Parks & Recreation Dept, Waukesha, WI

June 2013 - Aug 2013