

# Andrew Geng

---

Phone: (608)999-0795 | Personal webpage: <https://pages.cs.wisc.edu/~ageng> | Email: [ageng@wisc.edu](mailto:ageng@wisc.edu)  
Github: <https://github.com/gengandrew> | Address: 630 Samuel Dr, Madison WI 53717

---

## Education

- September 2016 – Present**      **University of Wisconsin-Madison (College of Engineering)**
- Currently pursuing: Bachelor of Science in Computer Engineering and Computer Science
  - Coordinator of the Undergraduate Project Lab and active member of Triangle

## Core Skills and Languages

Java, C, C#, C++, Python, Matlab, JavaScript, SQL      .NET Framework, React.js Framework  
Data Analysis, Research Design, Case Study Interview      Git, Linux/Unix, Project Management

## Research Experiences

- Wisconsin HCI Laboratory (Undergraduate Researcher)**      **(2018~present)**
- Co-investigator on the personal assistant project involving specialized vocal speech patterns.
  - Designed case study procedures and conducted case study interviews.
  - Conducted statistical analysis on collected experimental data.

## Work and Internship Experiences

- IBM (Full Stack Software Intern)**      **(Summer 2019)**
- Current intern working for IBM in the Silicon Valley Lab Location at San Jose CA.
- Boston Scientific (Software Engineering Intern)**      **(Summer 2018)**
- Full Stack Engineer for the Time Tracker System.
  - Application development with C# (.NET Framework) and SQL Express.
  - Managed UX Interviews and software validation for the Time Tracker Application.
- DOIT Office of Cybersecurity (Cybersecurity Intern)**      **(2017 ~ Present)**
- Part time security analyst and developer for the Office of Cybersecurity.
  - Assisting security officers with weekly and monthly reports on security incidents.
  - Building on existing scripts and remodeling concurrently used internal applications.

## Personal and Group Endeavors

### Race Across American (RAAM):

- Developer within a team of 15 Engineers and Data Scientists working on an optimization model and application for the Race Across America competition.
- Partnered with companies such as Garmin, Mapbox, The Weather Company, AT&T, and UBIX.ai for technological support.
- Utilized a React/Typescript Front-End and an AWS backend.
- Webpage can be found at: <http://raam.davehaase.com>
- Source code can be found at: <https://github.com/raam-2019>

### Team Envoy (Digital Pen Project):

- Gathered a group of 3 for the creation of a motion sensory Digital Pen which transfers hand drawn notes to digital formats.
- Manufactured a working prototype utilizing Arduinos and accelerometers.
- Utilized Fourier analysis and Kalman Filters in conjunction with accelerometer inputs, to read 3D motion.

### First Robotics Competition (Badgerbots):

- Winning Chairman's Award (2014) and Inspiration Award (2015) at the FRC Wisconsin Regionals.
- Team lead for the Robotic Arm Team.