Andrew Geng

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Work and Internship Experiences

IBM (Full Stack Software Intern)

(Summer 2019 & Summer 2020)

- Full Stack Software Intern for the IBM Systems team at the Silicon Valley Lab location.
- Worked on developing backend Java applications with corresponding test case components.
- > Significantly improved overall application runtime from 2 hours to 50 min.

Boston Scientific (Software Engineering Intern)

(Summer 2018)

- Software Engineer Intern for the Automation team at the Arden Hills location.
- Worked on developing the Time Tracker application utilizing the .NET Framework.
- Managed User Experience interviews throughout the development life cycle.

Office of Cybersecurity (Cybersecurity Intern)

(Dec $2017 \sim May 2020$)

- > Part time security analyst and developer for the Office of Cybersecurity.
- Assisted security officers with weekly and monthly reports on security incidents.
- ➤ Developed internal applications and improved existing network traffic scripts.

Research Experiences

Wisconsin HCI Laboratory (Undergraduate Researcher)

(2018 ~ present)

- Co-investigator for a personal assistant study concerning specialized speech patterns.
- Designed study procedures and applied statistical analysis on collected experimental data.

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, The Weather Company, AT&T, and UBIX.ai for technological support.
- Responsible for developing a web application utilizing React and Node.js.
- Webpage and source code can be found at: http://raam.davehaase.com and 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 into a digital document.
- Manufactured a working prototype utilizing Arduinos and accelerometers.
- Utilized Fourier Analysis and Kalman Filters in conjunction with accelerometer data to read 3D motion.

First Robotics Competition (Badgerbots):

• Winning Chairman's Award (2014) and Inspiration Award (2015) at the FRC Wisconsin Regionals.

Education

University of Wisconsin-Madison

(September 2016 ~ Dec 2020)

- ➤ Bachelor of Science in Mathematics and Computer Science [with honors]
- Coordinator of the Undergraduate Project Lab and active member of Triangle

Relevant Coursework

CS761 (Mathematical Foundations of Machine Learning) | CS525 (Linear Programming Methods) CS577 (Introduction to Algorithms) | Math 632 (Stochastic Processes) | CS367 (Data Structures)