Colin S. **Stern**

RESEARCH ASSISTANT · EMBEDDED SYSTEMS

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Education

University of Massachusetts Amherst   *Amherst, Massachusetts*

B.S. IN COMPUTER SCIENCE   *Sept. 2015 - May 2019*

- GPA: 3.98

Experience

Bloomberg Software Engineering Intern   *Princeton, New Jersey*

WEB CRAWLING TEAM   *May 2017 - July 2017*

- Improved proactive identification of problems with the web crawling system by publishing metrics to a telemetry system and developing and deploying a system dashboard.
- Decreased time needed to detect system problems by visualizing this metrics data on the time series analytics platform Grafana.
- Simplified system maintenance by publishing metrics in an easily extendable way.
- Wrote the frontend with Angular.js and developed the backend in Cython and Python.

Research Assistant, Sensors Lab (Prof. Deepak Ganesan)   *Amherst, Massachusetts*

RESEARCHER FOR <DEVELOPING NETWORKING FOR A REAL-TIME MOBILE GAZE TRACKER>   *June 2016 - PRESENT*

- Implemented Bluetooth file transfer for the iShadow wearable gaze tracker by writing a server program on the embedded device and a client app for Android.
- Dropped less than 1% of packets, even at a distance of several meters.

Grader for COMPSCI 190D   *Amherst, Massachusetts*

COURSE STAFF   *September 2016 - PRESENT*

- Graded assignments for an introductory computer science course in Java.

Skills

Languages Proficient in Java, C, Python and Node.js

Platforms Develop on Windows, Debian Linux and with Git

Interests Experience with web development, embedded development and mobile health research

Personal Projects

"Automated Hackathon Judge" at Hampshire College's HampHack   *Amherst, Massachusetts*

HACKATHON PARTICIPANT   *Feb. 2016*

- Developed an application that predicts whether an inputted hackathon project will win a prize at a hackathon.
- Uses a naive Bayes classifier machine learning algorithm on a training set of all past hackathon projects in the Devpost database.
- Implemented the Indico API and web scrapers.

"Yo Mamma Joke Generator" at HackUMass Hackathon   *Amherst, Massachusetts*

HACKATHON AWARD WINNER   *Oct. 2015*

- Created an application that turns internet news articles into Yo Mamma jokes.
- Uses natural language processing and sentiment analysis to attempt to find the funniest adjective/noun combination.
- Implemented the IBM Bluemix API and web scrapers.

Honors & Awards

2017	Dean's List, University of Massachusetts Amherst	*Amherst, MA*
2016	Dean's List, University of Massachusetts Amherst	*Amherst, MA*
2015	IBM Bluemix Award, IBM Corporation via HackUMass Hackathon	*Amherst, MA*
2015	Chancellor's Award, University of Massachusetts Amherst	*Amherst, MA*
2015	Eagle Scout, Boy Scouts of America	*Plainsboro, NJ*