

Colin S. Stern

SOFTWARE ENGINEER

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Education

University of Massachusetts Amherst

Amherst, Massachusetts

B.S. IN COMPUTER SCIENCE

May 2019

- GPA: 3.98

Experience

Bloomberg Software Engineering Intern

New York, New York

TRADE AUTOMATION & EXECUTION TEAM

Jun 2018 - Aug 2018

- Improved performance monitoring department-wide by wrapping a C++ telemetry system and exposing it in Node.js.
- Created and deployed the telemetry module for the internal infrastructure framework.
- Increased system transparency by instrumenting the trading platform ticket with metrics collection.
- Decreased time needed to detect system problems by visualizing this metrics data on the time series analytics platform Grafana.

Bloomberg Software Engineering Intern

Princeton, New Jersey

WEB CRAWLING TEAM

May 2017 - Jul 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.

Undergraduate Course Assistant for COMPSCI 190D

Amherst, Massachusetts

COURSE STAFF

Sep 2016 - Dec 2017

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

Research Assistant, Sensors Lab (Prof. Deepak Ganesan)

Amherst, Massachusetts

RESEARCHER FOR <DEVELOPING NETWORKING FOR A REAL-TIME MOBILE GAZE TRACKER>

Jun 2016 - Aug 2016

- 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.

Skills

Languages Proficient in Java, C/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

"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

2018 Computer Science Dean's Merit Scholarship, 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