

SAM HOPKINS

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github.com/samuelhopkins

EDUCATION

The University of Chicago, Chicago, IL

Sep 2012 – Jun 2016

Bachelor of Arts in Computer Science

- **NCAA Athlete – Wrestling** 2012-2014

WORK EXPERIENCE

Software Engineer: Microsoft

Aug 2016 – Present

- As a member of the WDG Shell team my primary focus has been improving the Proactive service used by Cortana in Windows 10. I have also worked on visual components of the core Cortana app.

Software Engineer Intern: BuildZoom

Jan – Mar 2016

- Worked as a full stack developer on a ROR/Angular stack. Developed over 75 feature improvements to production in 10 weeks. Implemented new security protocols to minimize exposure to malicious networks.

Software Engineer Intern: LogicGate

Jan – Mar 2016

- Designed and implemented a content management system and blog using Node.js/Express/Jade. Rebuilt www.logicgate.com and increased mobile compatibility of the site by over 30% to 95% total.

Software Engineer Intern: Belvedere Trading LLC

Jun – Aug 2015

- Implemented and certified a market data gateway in C/C++ for the NASDAQ that provided a 20% reduction in latency from the previous third party solution. Designed and implemented a browser based GUI to visualize and resolve trader connections in critical periods before market open.

Software Engineer Intern: Lumii Health

Mar – Jun 2015

- Implemented functionality within a Rails application to retrieve dynamic health insurance pricing data from the Healthcare.gov API. Wrote unit tests in RSpec to ensure database consistency.

PROJECTS

UChicago Classes Beta: *Node.js/Express, Jade, Angular.js, MySQL*

- A single page app that improves on the official UChicago classes search portal by eliminating page loads and providing optionality to filter by department and class time. Includes a schedule visualizer to aid in class schedule creation. Supported over 300 users in the first week of deployment.

BeatsByAndrey.com: *Django, Python, Postgres*

- A Markov chain generator app for lyrics. The back end utilizes a multi-threaded web scraper that dynamically sources data from Genius.com. Variable artist selection and Markov chain order allow for customizable pseudorandom lyric generation inspired by your favorite artist.

TOOLS

Languages: Python, Ruby, C/C++, JavaScript/JQuery, C#, Swift

Web Frameworks: Ruby on Rails, Node.js/Express, Django, Flask, Angular.js

Web Services: Heroku, AWS Elastic Beanstalk, Github Pages