Josh Benner

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Education

Michigan State University, East Lansing   Graduating December 2017
- Bachelor of Science in Computer Science   GPA : 3.32 / 4.0
- Minoring in Economics

Hong Kong University of Science and Technology - Study Abroad   January 2016 - May 2016
- Introduction to Artificial Intelligence, Web Applications, Software Engineering, and Computer Architecture

Experience

Software Engineer Co-op at **Textron Systems - Baltimore, Maryland**   September 2016 - Present
- Responsible for design and development with the embedded control systems, operator interface, and mobile application teams for the Shadow drones

Software Engineer Intern at **Crowe Horwath LLP - Grand Rapids, Michigan**   May 2016 - August 2016
- Helped develop a solution to simplify businesses tax bills which consisted of a high level MVC, AngularJS, and Web API
- Decreased Angular page load times by 40%
- Created complex server side queries and API calls to find tax conflicts that helped developers with the tax conflicts page
- Refactored major functionality into a reusable directive and to cut API calls by 50%
- Fixed validations and user restrictions of content and actions they can perform

Student Developer and Researcher at **Social Science Data Analytics Lab - MSU**   November 2015 - February 2016
- Worked with the Natural Language Toolkit to observe trends in sentences and parse the three main parts of a sentence
- Based on these categorizations, we calculated a terroristic rating from the government reports relating to human rights.

Software Engineer Intern at **TechSmith Corporation - Okemos, Michigan**   May 2015 – August 2015
- Developed new scrolling methods that improved stabilization and increased scrolling speeds by 100x
- Developed UI changes and worked with UX designer to create a better experience
- Gained experience in developer tools and using tele-op to communicate between C# and C++

Web Developer Intern at **MSU CANR IT Services and Web Team - MSU**   June 2015 – September 2015
- Built legumelabs.msu.edu as a fully responsive website that meets the highest accessibility standards

Projects

Connect   Summer 2015
- Given a list of LinkedIn URL's, scrapes members profiles for current city and names of places they've worked and their respective location
- Built an interactive Google Map using Flask(Python/JS) to visually display companies that members have worked at

Perfect Posture - Bitwise Hacks - #2 Overall, Best Software   Spring 2016
- Used a TI Launchpad to measure posture through acceleration that would dim your monitor when your posture was poor.

Modeled Autonomous Lawnmower: Summer 2014
- Calculated the path a "perfect" lawn cut would be given an outline of a lawn in Java's GUI, with options different cuts

Skills and Abilities

- Proficient in PHP, C++, Javascript, C#, .NET, Python, SQL, HTML/CSS, Less, Git, AngularJS and introductory experience in Java, Node.js, and Flask
- Led robotics team in mechanical design, implementation, and programming as Co-Captain of High School robotics team

Activities

Treasurer of Spartan Hackers and Executive Board Member   May 2015 - December 2015
- Managed budget of $1900 for workshops that taught over 100 participants a week how to use new technologies
- Organized programming and career development workshops with Women in Computing and Association for Computing Machinery
- Taught Python Web Scraping workshop to over 60 people and received a 92% favorable rating

Webmaster of Triangle Fraternity of Engineers, Scientists, and Architects   May 2015 - December 2015
- Collected data on where fraternity brother's have worked to display on the recruitment page of www.msutriangle.org for recruiters and companies to see
- Improved professionalism of the chapter's members by increasing creation of LinkedIn profiles and linking to it from their pictures
- Updated website with new content, including composites and articles