

Solomon Astley

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Education

University of Pittsburgh

Bachelor of Science in Computer Science

Pittsburgh, PA

GPA: 3.99 - Credits: 66

Relevant Coursework: Data Structures in Java – Computer Organization and Assembly Language – Discrete Math in Computer Science – Intro to Java Programming – Algorithms – Formal Methods in Computer Science – Operating Systems

Work Experience

Software Engineering Intern, MAYA Design, Pittsburgh, PA

May 2016 – Present

- Built a scalable, responsive web dashboard for a large offshore drilling company
 - A flask application that connects to a SQL server database on the backend and multiple complex and interactive data visualizations built with D3.js on the frontend
 - Developed a caching system to minimize page loading times and latency due to the size of the database and locations of offshore rigs
- Built a web application that serves as an online emergency law inventory for medical reserve corps emergency respondents
 - A web application that uses Kirby CMS (a PHP based content management system) and connects to a PostgreSQL database on the backend, and jQuery on the frontend
 - Wrote python scripts that utilized Google APIs to collect data and build a PostgreSQL database for the law inventory from scratch

Free Lance Web Developer, Pittsburgh, PA

Nov. 2015 – May 2015

- Utilized Twitter Bootstrap framework and MEAN stack to design and develop websites
- Designed responsive websites for small businesses as well as personal and hackathon projects

Honors and Awards

Dragon Hacks 2016 - 1st Place Overall, Drexel University, Philadelphia, PA

Jan. 2016

- Utilized Microsoft Kinect to create sign language interpretation hack
- Developed workflow with IBM Blue Mix and Twilio to facilitate communication between deaf and non-deaf individuals via sign language translation and text messaging

Pitt Apps 2016 – Best Energy-Related Hack, University of Pittsburgh, Pittsburgh, PA

Jan. 2016

- Built an automatic light switch that requires no electric installation to improve accessibility and usability of energy efficient switches
- Combined a raspberry pi and a servo motor with a 3D printed arm and casing designed in SolidWorks

Prof Hacks 2016 – Multiple Awards, Pittsburgh, PA

Mar. 2016

- Best Use of Amazon Web Services, Best Tech Website, Best Internal Integration

- Developed a web application for self-driving cars that re-routes the car to the nearest hospital in the case of a medical emergency by reading the output from a Muse Headband

Fashion Tech 2016 – *Best Tech Website, Best Use of AWS*, Kent State, PA **Mar. 2016**

- Created a prototype Android application for retail stores that allows shoppers to scan the RFID tags on items and purchase them from their mobile device
- Later went on to develop this idea at the Randall Family Big Idea Competition and win \$1,000 for being a finalist

Eagle Scout Award **Mar. 2012**

Research and Related Experience

Undergraduate Research Assistant to Dr. John Keith **Sept. 2015 – March 2016**

- Wrote Python scripts to streamline data generation and convert various geometrical optimization output files to readable coordinate files
- Modeled chemical reactions on a molecular level using computational chemistry

Undergraduate Teaching Assistant (UTA) to Dr. Hanna Salman **Aug. 2015 – Dec. 2015**

- PHYS 0174, Basic Physics for Science and Engineering 1
- Created lesson plans, tutored peers, monitored and analyzed performance of students

Skills

- **Computer Skills**
 - Proficient programming skills in Java, JavaScript, Python, PHP, SQL, HTML5, and CSS3
 - Experience using jQuery, Bootstrap, MEAN Stack, LAMP Stack, Android Studio, Sass, Kirby CMS, Jade, Mustache, Ember.js, Git (GitHub username - [solastley](#))
- **Language:** Proficient in Spanish, Learning German

Extracurricular Activities

- PACT (Pittsburgh Attacks Cancer Together), **Business Manager** **Jan. 2015 – Dec. 2015**
 - Non-profit student-led organization with over 100 members created in order to raise money for cancer research at UPMC
 - Helped found and build the organization and its various committees
- Steel Hacks 2016, **Volunteer** **Jan. 2016**
 - Student-led hackathon at the University of Pittsburgh with hundreds of participants