**Joseph Crandall**

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**Education**

**The George Washington University**, Washington, DC

Computer Science B.S. candidate May 2017

Physics B.S. candidate May 2017

**Washington–Lee High School**, Arlington, Virginia

International Baccalaureate Full Diploma May 2012

**Technical Skills**

* Proficient with Java, C, Unix, Linux, HTML, CSS, JQuery, JavaScript, PHP, MySQL, and LaTex
* Learning C++, Arduino, and Mathematica

**Academic Skills**

Laboratory Physics, Modern Physics, Algorithms, Operating Systems, Systems Programming, Artificial Intelligence, Calculus, Ordinary Differential Equations

**Experience**

**Computer Science Research Lab Assistant,** Washington Dc November 2015 - Present

The George Washington University

Contacts: Dr. Hyeong-Ah Choi - [hachoi11@gmail.com](mailto:hachoi11@gmail.com), Dr. Rahul Simha – [simha@gwu.edu](mailto:simha@gwu.edu)

* Researching maximizing connectivity between points on unique cyclical orbitals with limited signal distance.
* Funded through NSF to attend Internet of Things (IOT) security conference in, Seoul, South Korea January 2016

**Nuclear Physics Research Lab Assistant,** Ashburn Virginia May 2014 – July 2014

The George Washington University

Contacts: Dr. Igor Strakovsky - [igor@gwu.edu](mailto:igor@gwu.edu), Dr. Gary White - [gwhite@email.gwu.edu](mailto:gwhite@email.gwu.edu)

* Plotted data using PHYSICA software for testing of final-state-interaction code for extraction of neutron pion photoproduction cross sections from the deuteron data

**Founder/Developer of Assistance.net,** Arlington, Virginia February 2013 - December 2014

18-month Start Up

* Built a LAMP stack site using laravel framework (source code on GitHub)
* Developed business model for individual service provider market place website
* Organized team of developers; leased office space; incorporated in Delaware; negotiated contracts; set up physical server in Ashburn, Virginia; utilized AWS; produced promotional videos

**Activities**

* Activities Chair, Society of Physics Students, Student Chapter, September 2014 - Present
* Member, Association for Computing Machines, Student Chapter, September 2014 - Present
* Brother, Delta Tau Delta Fraternity January 2013 - Present