

## JACOB POMERANZ

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### EDUCATION

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Aug 2014 – Present	Rodman/Echols Scholar at University of Virginia (Bachelor's in Computer Science expected May 2017). Current GPA: 4.0
Sep 2012 – May 2014	New Horizon's Regional Governor's School for Science and Technology, Computer Science Strand (all classes dual-enrolled with Thomas Nelson Community College)

### COMPUTER SKILLS

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- Proficient in C/C++ and Java. Experience with x86 Assembly, Python, PHP, and JavaScript. Experience with SQL, Wolfram Mathematica, MATLAB, and Nvidia CUDA.
- Experience with Git, SVN, Jira, and Confluence
- Experienced in both Windows and Unix-based systems.

### EXPERIENCE

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May 2016 – Aug 2016	<p>Computer Science Intern, <i>National Security Agency</i></p> <ul style="list-style-type: none"><li>• Underwent Agency Special Background Investigation and polygraph testing to hold TOP SECRET//SI//TK clearances.</li><li>• Used Python, SQLite, and PostgreSQL to perform large-scale extraction, processing, and transformation of critical data.</li><li>• Built several key database visualization tools using PHP, Ajax, and HTML/CSS.</li><li>• Restructured development environment and automated tasks to increase efficiency and stability.</li></ul>
Mar 2015 – Sep 2015	<p>Web Development Intern, <i>OpenGrounds</i></p> <ul style="list-style-type: none"><li>• Worked with a student design team and used technologies such as Python, Django, SQLite, and Bootstrap to create a novel research website for word-cloud generation.</li></ul>
Aug 2013 – May 2014	<p>New Horizons GSST Mentorship, <i>Thomas Jefferson National Accelerator Facility</i></p> <ul style="list-style-type: none"><li>• Worked with Dr. David Lawrence to create an improved charged particle tracking program using C++ and Nvidia CUDA for the GlueX experiment</li><li>• Presented my research to receive the GSST Outstanding Research award.</li></ul>
Jun 2013 – Jul 2013	<p>US Department of Energy Internship, <i>Thomas Jefferson National Accelerator Facility</i></p> <ul style="list-style-type: none"><li>• Independently set up an open-source monitoring and management infrastructure (Nagios).</li><li>• Installed and managed computer hardware throughout the lab.</li><li>• Coded various plugins and scripts using C and Bash.</li></ul>