

## JACOB POMERANZ

---

www.jacobpomeranz.com | 757-848-6288 | jrp5kb@virginia.edu

### EDUCATION

---

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)
Sep 2010 – May 2014	Poquoson High School (Advanced Diploma with Highest Honors received June 2014)

### COMPUTER SKILLS

---

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

### EXPERIENCE

---

May 2016 – Aug 2016	Computer Science Intern, <i>National Security Agency</i> <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	Web Development Intern, <i>OpenGrounds</i> <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	New Horizons GSST Mentorship, <i>Thomas Jefferson National Accelerator Facility</i> <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	US Department of Energy Internship, <i>Thomas Jefferson National Accelerator Facility</i> <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>