

JACOB POMERANZ

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

EDUCATION

Aug 2014 – May 2017	Rodman/Echols Scholar at University of Virginia (Bachelor's in Computer Science expected May 2017). 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)

SKILLS

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

EXPERIENCE

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