

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.
- Experienced with SQL, Docker, Hadoop, AWS, MATLAB, and Nvidia CUDA.
- Familiar with Git, SVN, Jira, and Confluence.
- Experienced in both Windows and Unix-like systems.

EXPERIENCE

- May 2016 – Aug 2016 Computer Science Intern, *National Security Agency*
- 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 Web Development Intern, *OpenGrounds at UVA*
- 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 New Horizons GSST Mentorship, *Thomas Jefferson National Accelerator Facility*
- 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 US Department of Energy Internship, *Thomas Jefferson National Accelerator Facility*
- 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.