JACOB POMERANZ

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EDUCATION

Aug 2014 – May 2017	Rodman/Echols Scholar at the University of Virginia. Bachelor's in Computer Science received May 2017. GPA: 4.0

SKILLS

· JavaScript, Python, Java, C, C++, PHP, and x86 Assembly.
· Experienced with Unix, SQL, Docker, and AWS.

EXPERIENCE

Aug 2017 – Present — Software Engineer, *Qualtrics*

· Used NodeJS, AngularJS, Golang, PHP, Python, Java, and TypeScript in conjunction with MySQL, PostgreSQL, DynamoDB, and Redis to develop new product features and full-stack services.
· Wrote unit, integration, end-to-end, and load tests for all code written.
· Built backend infrastructure using Nomad, Docker, and AWS.
· Developed and published Qualtrics Node SDK.

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 and Ajax.
· 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 subatomic 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).
· Coded various plugins and scripts using C and Bash. Helped with Windows XP EOL migration. Installed and managed computer hardware and servers throughout the lab.