

Jacob Pomeranz

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EDUCATION

University of Virginia — Bachelor's in Computer Science

Aug 2014 – May 2017

Rodman/Echols Scholar. GPA: 4.0

EXPERIENCE

Senior Software Engineer, Qualtrics

Aug 2017 – Present

- Re-architected asynchronous workflow platform and adopted Kafka as an event bus to scale to support millions of executions per day
- Used Java, Node, and Golang in conjunction with SQL, DynamoDB, and Redis to develop new microservices along with React to develop new user interfaces.
- Built backend infrastructure using Nomad, Docker, and AWS.

Computer Science Intern, National Security Agency

May 2016 – Aug 2016

- 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.

Web Development Intern, OpenGrounds at UVA

Mar 2015 – Sep 2015

- 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.

New Horizons GSST Mentorship, Thomas Jefferson National Accelerator Facility

Aug 2013 – May 2014

- 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.

US Department of Energy Internship, Thomas Jefferson National Accelerator Facility

Jun 2013 – Jul 2013

- 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.