

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

- Performed a zero-downtime migration of all xFlow services from AWS SWF to Temporal as a backend
- 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