

ZACHARY LASSMAN

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SUMMARY

Results-driven engineering professional with a strong foundation in infrastructure, systems reliability, and automation. Returning to the workforce with a renewed perspective and a deep commitment to building resilient, scalable technology that drives impact. Passionate about innovation, optimization, and efficiency and eager to contribute to a mission-driven team solving complex engineering challenges.

WORK EXPERIENCE

Career Sabbatical

September 2020 – Present

- Took intentional time away from Google to focus on my health. During this period, I remained engaged through technical projects and consulting.
- Now actively seeking opportunities in engineering with renewed energy and clear vision for what's next.

Site Reliability Engineer, Google, Pittsburgh, PA

May 2018 – September 2020

- Built, maintained, and scaled long-standing ads systems, focusing on reliability, latency reduction, and production stability.
- Acted as the first line of defense for mission-critical infrastructure — triaging incidents, resolving system failures, and preventing recurrence.
- Served as service owner for high-throughput data pipelines, processing millions of events per second, with strong emphasis on uptime and scalability.
- Partnered with software engineering teams to improve deployment processes, reduce operational toil, and optimize service handoff protocols.

DevOps Engineer, BreakPoint Labs, Lorton, VA

October 2016 – December 2017

- Worked closely with team to build and maintain a cybersecurity system across multiple networks, integrating Bro IDS sensors, an analysis pipeline, and full-stack data services.
- Designed and automated Linux sensor deployments using PXE, RHEL Kickstart, and Ansible, improving network rollout time and reliability.
- Restructured CI/CD pipelines using GitLab CI and Docker, reducing build times and enabling seamless code portability across disjointed networks.
- Overhauled Ansible infrastructure to ship prebuilt Docker images, cutting deployment time from multiple days to under an hour.
- Rebuilt internal Django-based web apps (e.g. Incident Response Tracker) to streamline security incident tracking across teams.

College Qualified Leaders Intern, U.S. Army Research Laboratory, Adelphi, MD

June 2015 – August 2015

- Engineered a scalable video analytics framework for distributed processing across Android devices and microclouds over tactical networks.
- Developed a high-performance Android application using the Native Development Kit (NDK) to seamlessly integrate the Caffe deep learning framework.
- Built server-side infrastructure to interface with Android clients and enable GPU-accelerated deep learning using Caffe.

EDUCATION

The Pennsylvania State University, University Park, PA (May 2016)

- Dual B.S. degrees: Electrical Engineering, Computer Science
 - GPA: 3.81/4.00 (Dean's List all semesters)
- Member of Eta Kappa Nu, *Electrical Engineering Honor Society*

TECHNICAL SKILLS

Software Development • Systems Engineering • Computer Networking • Full Stack Development • Containerized Development
Embedded Devices • 3D Design & Printing • Linux System Administration • Electronics

PROJECTS & INTERESTS

- Seasoned bicycle tourer: across the US (coast-to-coast), Pacific Northwest, New England, and Iceland.
- Rebuilt a 1975 Honda CB-500T engine with brother to run better than original condition.
- Bicycle mechanic and salesman for a local bicycle shop.
- Taught Pittsburgh Public School summer program students how to ride bicycles through the Positive Spin program in 2013.
- Captain of Pittsburgh Allderdice High School rowing team senior year of high school.
- Classically-trained clarinetist of over 14 years; also played saxophone and tuba.