Adam Bloom

in bloomadams

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SUMMARY

Experienced leader in backend software and DevOps/SRE with 6+ years of experience solving challenging problems spanning from system architecture, monitoring and observability, to end-to-end software debugging of distributed systems.

KEY ACCOMPLISHMENTS

- Architected and implemented distributed systems components in Go and Python, across public and private cloud

- Leveraged database migrations, end-to-end testing, and improvements to the deployment workflow to reduce DevOps hurdles and improved development team efficiency.

- Created cloud workstation images and workflows for my team at Spire, increasing scientist productivity by shortening times to access scientific data and removing barriers to collaborating on large data sets.

- While at Viasat, led DevOps efforts for the ISP MAC software, supporting hundreds of thousands of end-users. As Product Owner for a team of 5 engineers, developed DevOps vision, architecture, and product backlog. Coordinated monitoring, configuration, and deployment tasks among 4 teams (35+ people in the US and India).

- Performed end-to-end system integration to unlock additional bandwidth, including an additional 25% of capacity in the months after Viasat-2 service launch. Building on this success, I collaborated across engineering teams and business leadership to define system requirements for future capacity allocation systems. Performed data analytics and lent technical expertise to support satellite capacity management efforts.

- Supervised intern project involving geospatial indexing and GraphQL API development.

PROFESSIONAL EXPERIENCE

Spire Global, Inc.   Remote/Boulder, CO
GNSS, Ground Processing Software Engineer   *December 2020 — Present*

Viasat, Inc.   Remote/Denver, CO
Product Owner & Lead DevOps Engineer   *February 2020 — December 2020*
Software Engineer   *January 2016 — February 2020*

PERSONAL PROJECTS

OpenRCT2
- Fixed bugs in game logic (i.e. mechanic AI), added native M1 macOS app, switched macOS app build to cmake

Camp Nebagamon Staff Time Off Assignments
- Built a Django web application to solve constrained optimization problem of assigning cabin staff time off, replacing a manual process that allowed many conflicts with inefficient resolution

TECHNICAL EXPERTISE

Debugging and developing multiple languages: Python, C/C++, Go, MATLAB
Leveraging data storage and processing technologies: PostgreSQL, Avro, Kafka, Spark
Employing many DevOps tools: Docker, Git, Linux, Terraform, Ansible, Packer, Jenkins, Splunk, Grafana, Elasticsearch
Utilizing AWS services: Cloudwatch, DynamoDB, EC2, ECS, IAM, Lambda, RDS, S3, SNS, SQS

CERTIFICATIONS / EDUCATION

Certified Scrum Product Owner, Mountain Goat Software   June 2020
Leading at Viasat: Manager Essentials, Harvard Business Publishing   June 2020
Viasat Supervisor Development Program   April 2018
Certified ScrumMaster, Mountain Goat Software   February 2017
Splunk Certified Architect 6.x, Splunk   January 2017

Rice University   Houston, TX
Master of Electrical Engineering   *December 2015*
Bachelor of Science in Electrical Engineering, *Cum Laude*   *May 2015*