Adam Bloom

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Technical Expertise

Experience debugging and developing using the following languages: Python, C/C++, Go, Java, Scala, MATLAB
Worked extensively with these technologies: Docker, Avro, Kafka, PostgreSQL, Spark, Git, AWS, Django, Flask, Linux
Rely on these DevOps Tools: Terraform, Ansible, Packer, Jenkins, Splunk, Grafana, Elasticsearch, xMatters

Professional Development and Certifications

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

Professional Experience

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

- Develop new features and diagnose issues in the real time radio occultation processing system, using Python, ECS, SQS
- Identify DevOps hurdles and architect solutions: implement database migrations, end-to-end testing, telemetry
- Reduced cloud costs by approximately 20% via workflow optimizations and use-case analysis
- Designed and developed client for parsing and storing critical external data using Go and DynamoDB

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

- Lead team of 5 engineers collectively responsible for DevOps Engineering for Viasat Internet MAC software
- Develop DevOps vision and product backlog for satellite ground system MAC software (current/next generation), including software architecture for monitoring, configuration, and deployment of a containerized distributed system
- Coordinate monitoring, configuration, and deployment tasks among 3 US software teams and 1 India team
- Perform end-to-end debug of complex issues affecting our broadband satellite internet service (packet loss, VoIP jitter, link adaptation algorithms) for consumers, businesses, and government customers using our commercial network
- Drive integration and acceptance effort of next generation MAC software, reducing business risk of a critical ground system component prior to Viasat-3 satellite launch

Systems Engineer *January 2018 — February 2020*

- Member of Viasat-2 Core Beta team, tasked with Viasat-2 payload calibration and service entry
- Develop and integrate new capabilities in our frequency planning/configuration tool to maximize bandwidth utilization
- Envisioning and preliminary definition of next generation satellite MAC interfaces and algorithms
- Co-design satellite configuration generation system with support for multiple satellite classes
- Perform data analytics and lend technical expertise to support satellite capacity management efforts
- Supervise intern project involving geospatial indexing and GraphQL API development

Software Engineer *January 2016 — January 2018*

- Perform final integration of calibration software of satellite ground system in preparation for service launch
- Develop satellite ground system monitoring capabilities (metrics, dashboards, alerts)

Personal Projects

OpenRCT2

- Contributed various efforts to the open source project: CI improvements, native MI macOS app, various bug fixes

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

Education

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