Seth Smith Tech Generalist | Full Stack Hobbyist | Infrastructure Expert

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Skills

- Go / Golang | Python | Java | Javascript | SQL | NoSQL | Rest | GRPC | Git | Bazel | Gazelle | S3 | GCS
- GCP | AWS | OCI | Docker | Kubernetes | Cloud-Computing | CI/CD | Buildkite | Jenkins | Starlark | Django | Flask
- Microservices | Distributed Systems | Security | Cryptography | PKI | EDR | Network Engineering | CDN

Experience _____

 Senior Software Engineer Led the design of production hardware remedidatacenter using microservices orchestrated b Enriched Uber's production lifecycle strategy Led ransomware detection and mitigation initian implementing systems that block thousands of Designed and implemented Uber's PKI infrase Developed internal bastions and certificate aut Implemented zero trust and JIT access for Uber MySQL and a Slack bot, reducing ad-hoc production and a statement and a stateme	by a control plane, developed wi y for compatibility with OCI & O tiatives end-to-end, managing tr of potentially malicious activities structure by completely refactor uthorities which handle production per's production fleet, developed	th Go, Postgres, docker <i>and</i> kub GCP, driving over \$25M annual adeoffs for production stakehold s daily. ing how ssh certificates are utiliz on authorization at Uber.	ernetes. savings. lers and zed.
Senior Systems Engineer	Uber	Boulder, CO.	2017-2021
• Designed and developed Uber's network flow		· · · · ·	earch to
implement an enterprise solution recording 2M flow records/second with 90-day retention.			
 Collaborated extensively with the developer of what eventually became <u>elastiflow.com</u>. I presented this network monitoring solution at the 2022 <u>kentik.com</u> annual general meeting in Hawaii. 			
 Led the development of multiple network monitoring and remediation products, responsible for identifying system 			
requirements ensuring network engineers ability to identify network optimizations and vulnerabilities.			
• Developed a full-stack host remediation platform integrated with Jira and Hipchat, decreasing failure TTM by ~50%.			
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 Network Engineer Developed a global Push/Pull CDN serving a 	Uber	Boulder, CO.	2016-2017
 Developed a global rushr an eDry serving a moustaid concurrent mapping operators 20 nours a day with 99.99% aprine. Developed and automated a "cache warming" system that increased global map-making efficiency by 18%, saving >\$10M 			
over the life of Uber's map-making efforts.	5	1 6 9 9 9	8
• Migrated a 5000 server datacenter with 500PB of map data from Windows to Ubuntu on Mellanox Infiniband in 6 months.			
Lead Tech Consultant	Fast Enterprises	Juneau, AK.	2014-2016
• Reported directly to the CTO: led a team of developers orchestrating the electronification of Alaska Department of			
Revenue's tax processing systems. Responsible for migrating 15 developers' changes to production tax systems.			
IT Manager	<u>Schnee</u>	Bozeman, MT.	2012-2014
• Led tech expansion into three new physical stores and a manufacturing plant, while integrating new CRM/POS and VOIP.			
• Facilitated digital sales by integrating a web platform, currently comprising >60% of revenue.			
• These updates were primary contributors to a	innual profit increases of $\sim 20\%$	year-over-year.	
Education			
 BSEE: Electrical Engineering Led a design team in development of an optic 	Montana State University cal attenuator for an internationa		2014 om.
Mentorship			
• Tenured member of Uber Mentors. Formally mentored multiple interns and colleagues in a results-driven fashion.			
• Participated in Montana First educational out	treach for multiple years.		
Projects			

Projects

- AK Tax; <u>dor.alaska.gov</u> is a full-service portal for taxpayers and processors. Developed in collaboration with a small team.
- <u>Optical laser attenuator</u> for industrial applications.