

Joshua Gilman

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SUMMARY

Veteran and SRE with 15+ years' experience building architectural improvements, designing network infrastructure, and optimizing large scale systems for the big tech, Web3, data center, and manufacturing industries. Develop strategies and collaborate with technology teams to support critical infrastructure. Design technology ecosystems and lead optimization initiatives to improve systems used by 1K-400K+ employees and end users. Seeking a Senior Site Reliability Engineer to drive platform efficiencies and spearhead complex projects for a company committed to disruption, innovation, and operational excellence.

TECHNICAL

Software & Technical: Terraform, Nix, Docker, Dell EMC, Windows Server, VMWare vSphere, Veeam, Wireshark, Alerton, Rockwell/Allen Bradley, Automated Logic (ALC), Schneider SCADA systems, Cisco server/networking, BACnet protocol (IP, ETH, and MS/TP), Modbus protocol (TCP, and RTU), AutoCAD, VISIO, DCIM Schneider Electric PLC/Unity Pro, Citect SCADA, Ansible, Gitlab

Cloud & Kubernetes: AWS, Google Cloud, Elastic Kubernetes Service (EKS), Argo CD, Helm Timoni Jsonnet

Programming Languages: Go, Python, Rust, JavaScript, SQL, BAS DDC and PLC Programming

EXPERIENCE

Input Output HK, Portland, OR **Oct 2022 – Present**

Lead Site Reliability Engineer

- Develop, iterate, and maintain infrastructure (Kubernetes, Terraform, Earthly) for operating Cardano's decentralized innovation system (Project Catalyst), completing projects 4-6 months quicker than prior average, supporting 4 funds annually (\$50M+ annual distributions), and improving community engagement with platform (200K-400K+ members)
- Architect complete software stack (CUE, Timoni, Argo CD) capable of running blockchain workload and implement safe/reliable methodologies necessary, improving public confidence in an on-chain governance system
- Design and implement automated software testing and delivery pipeline, decreasing testing times by 92% and reducing testing by 100+ hours weekly
- Create documentation and training to enable 20+ software engineers to take ownership of systems and promote strong DevOps culture focusing on platform engineering, saving \$250K annually on infrastructure costs

Google, Portland, OR **Jul 2014 – Oct 2022**

Site Reliability Engineer (Core Infrastructure Team)

Mar 2022 – Oct 2022

- Created multiple software delivery pipelines with Python, improving software delivery reliability by 10% for 1K+ SWEs
- Migrated legacy applications used by 10K+ employees to newer orchestration systems, increasing developer velocity and reducing cognitive load
- Spearheaded first Data Center Modernization Initiative at Google and integrated SRE principles into data center operations, improving visibility into critical data center services and reducing toil

Data Center Technician I/II **Jul 2014 – Mar 2022**

- Led 2-3 year data center build projects to commission 3 data centers (total 400MW+), achieving top ranking for controls engineering and compliance and securing first ever promotion from Data Center Technician to SRE at Google
- Collaborated with Controls Engineer to maintain and improve complex SCADA software and networking deployments, including medium-sized Cisco-based network and 4 FactoryTalk deployments (FactoryTalk Server, Historian, Directory), leading to adoption by all current and future Google data centers
- Designed, led, and implemented software-based improvements to SCADA systems (automated security systems, software-based monitoring tools, disaster recovery software), leading to no major cybersecurity incidents and saving 400K+ manual labor hours for data center operations annually
- **15+ Google Awards & Recognition:** Top Awards – Control Systems Automated Anti-Virus Solution, Delivering The controls infrastructure for the facility - TLK phase 2, Wastewater report automation troubleshooting

Johnson Controls, San Francisco, CA

May 2013 – Jul 2014

HVAC Controls Technician

- Supported 20+ sites in the Greater San Francisco Bay Area (Monterey to Santa Rosa to Vallejo) and performed preventative maintenance on building management solutions (Metasys, Tridium, and other legacy control products), ranking in the top 5% of technicians with a 100% on time project delivery rate
- Responded to and resolved 15-20 BMS service requests weekly (coolant plant malfunctions, pressure issues), completing 90% of requests within 2-3 hours
- Designed and commissioned 9 HVAC process plants (\$100K-\$3M+) for technology (Samsung, Nokia, Erickson), data center (Juniper), skyscraper HVAC systems, manufacturing plants, and laboratory facilities

PREVIOUS EXPERIENCE

US Navy: Electrical Maintenance Technician (Nuclear)

Alias Projects: Software Developer

SKILLS & INTERESTS

Certifications: Programming for Data Science Nano Certification (Udacity)

Core Competencies: Automation Tooling, Containerization, Continuous Improvement, Deployment Strategies, Operational Support, Release Management, Reliability Engineering, Resiliency, Software Development, SDLC, Mentoring, Training, Configuration Management, Development Frameworks

Interests: Locally Hosted AI Server, Home IoT, Hiking, Camping, Reading, Music, Guitar