

Justin Gorny

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About

Seasoned infrastructure engineer and technical leader with 8+ years of experience leading large-scale infrastructure projects and driving technological innovation. Expertise in designing and implementing complex, scalable, and secure IT solutions in cloud native environments. Proven track record of optimizing performance, reducing costs, and mentoring junior engineers. Adept at translating customer requirements into innovative digital solutions, consistently exceeding expectations on deliverables. A highly effective communicator and natural leader.

Experience

Senior Infrastructure Engineer October 2025 - Present
HeroDevs - Salt Lake City, UT Remote

- Owned the company's Kubernetes ecosystem across multiple EKS clusters, using Argo CD, Helm, and GitOps workflows to ensure consistent, secure, and reproducible deployments.
- Provisioned and managed infrastructure using OpenTofu (Terraform), building reusable modules and implementing infrastructure-as-code for AWS, GitHub, and Artifactory access — significantly simplifying team assignments, user lifecycle management, and governance.
- Improved developer workflows by building reusable GitHub Actions, automated CI/CD pipelines, and standardized patterns for testing, promotion, artifact publishing, and environment drift detection.
- Ensured 99.5% uptime for customer-facing applications — including the flagship NES Registry — by implementing SLO-driven monitoring and alerting and expanding observability with Prometheus, AlertManager, Blackbox Exporter, and Grafana.
- Implemented policy-as-code using Kyverno to enforce guardrails, minimize misconfiguration, and improve baseline cluster security.
- Improved Kubernetes scheduling efficiency by implementing Karpenter node pools, optimizing instance mixes, and leveraging spot instances across 35% of the workload.
- Achieved a 65% month over month AWS spend reduction on EC2/EKS by performing resource rightsizing, adopting spot instances, and purchasing a compute savings plan. Rightsized RDS instances, storage class, and purchased reserved instances (RIs) resulting in an 84% spend reduction year over year.
- Improved application reliability and reduced MTTR by designing and implementing multi-region disaster recovery for secrets and RDS backups using infrastructure as code.
- Onboarded Terragrunt to enforce DRY infrastructure-as-code patterns, reducing configuration complexity and accelerating CI by isolating state files.
- Operationalized OSS Teleport to provide secure, identity-based, short-lived credential access to private EKS & RDS instances, eliminating static credentials and access dependencies while centralizing RBAC and audit logs.

Lead Cloud Infrastructure Engineer February 2025 - October 2025
UPMC Enterprises - Pittsburgh, PA Hybrid

- Managed 80+ AWS Accounts and 25+ projects technical incubation and lifecycle.
- Led a team of 3 Cloud Engineers to design and deploy cloud solutions to accelerate healthcare IT & AI startups.
- Implemented org wide data perimeter - Service Control Policies (SCPs), Resource Control Policies (RCPs), VPC Endpoint Policies (VPCEs), and supporting documentation.
- Architected, built, and deployed de-identification pipeline using Elastic Map Reduce for commercialization of payer and provider data (Ahavi™).
- Operationalized AWS SageMaker AI/ML tools and studio for model development, testing, and lifecycle maintenance (MLflow).
- Collaborated with customers to define requirements for moderate to complex solutions and performed cost-value, feasibility, and risk analyses.
- Oversaw the cloud engineering patch schedule and coordinated directly with customers to plan, communicate, and execute updates.
- Drove technical innovation of cloud infrastructure strategies in collaboration with the cross functional stakeholders.

- Architected and executed the migration of on-premises workloads to AWS, designing a scalable hub-and-spoke architecture leveraging AWS Transit Gateway and site-to-site VPNs, ensuring secure and seamless connectivity for the client's cloud environment
- Served as Terraform SME for new IaC initiatives across the enterprise — providing KT sessions where possible.
- Re-architected self-hosted GitLab runners into EKS leveraging Argo CD and Karpenter for scaling and job isolation via tags - achieving a ~65% YoY cost savings.
- Achieved HiTrust CSF certificate for the MyUPMC application, architecture, & security.
- Implemented auto-scaling solution in Kubernetes by leveraging Karpenter & Horizontal Pod Autoscalers to optimize workloads; resulted in ~20% annual savings in EC2 spend.
- Adopted Flux CD to manage Kubernetes manifests, resulting in more than a 400% deployment performance gain.
- Enhanced security posture based on findings published in the NSA Kubernetes Hardening guide; Network Policies, IRSA, & RBAC.
- Modernized application servers to leverage container-oriented OS AWS Bottlerocket.
- Architected and implemented a solution for surfacing up application health details to the client and the ability for this content to be modified remotely and dynamically via a Slack app.
- Drove sign-on migration from Azure IMS generic roles to AWS SSO scoped roles implementing least privilege.
- Lead cost savings initiative, leveraging AWS Karpenter with AWS Spot Fleets and EC2 Savings Plans, to reduce cost by 36%; Aided in adoption of CoreDNS over Route53 resulting in an additional \$17,000 saved annually.
- Established a warm disaster recovery solution; reduced RTO by 600% while maintaining RPO of less than 15 minutes.

Software Engineer
FedEx Services - Pittsburgh, PA

May 2019 - March 2020
Hybrid

- Developed & maintained web-based applications hosted on Android devices for field use. These applications were built using Java, Spring Boot, Maven, and Jenkins CI.

Education

Bachelor of Science - Computer Engineering
Pennsylvania State University

May 2019
Erie, PA

Graduate Certificate in Leadership and Organizational Change
Master of Science - Organizational Leadership
Robert Morris University

May 2025
October 2024 - Present
Pittsburgh, PA

Certifications

AWS Solutions Architect Professional • AWS Solutions Architect Associate • AWS SysOps Administrator Associate
AWS AI Practitioner • AWS Cloud Practitioner • HashiCorp Terraform Associate
Linux Foundation Kubernetes & Cloud Native Associate

Technical Skills

Cloud & Platform Engineering: AWS, Kubernetes (EKS), Docker, Platform Engineering, Solutions Architecture, Multi-Region Architecture, Disaster Recovery (RPO/RTO), Cloud Networking & VPNs

Infrastructure as Code & Automation: OpenTofu, Terraform, Terragrunt, AWS CDK, Ansible, Bash, Python

GitOps & Deployments: Argo CD, Flux CD, Helm, Kustomize, GitHub Actions, GitLab CI/CD

Observability & Reliability Engineering: Prometheus, Grafana, AlertManager, Blackbox Exporter, Monitoring & Alerting, SLA/SLO Design, Incident Response

Cloud Security & Governance: Identity & Access Management, Least Privilege Design, IRSA, Policy-as-Code (Kyverno), Compliance & Governance Controls, Microsoft Entra ID

Data & Persistence: PostgreSQL, MySQL, AWS RDS, Backup & Recovery Strategies