MAX J. ESPINOZA

(203)464-6533 ⋄ readthinkhack.org
Amherst, MA 01002 ⋄ max.j.espinoza@gmail.com

EDUCATION

Rensselaer Polytechnic Institute, Troy NY *May 2016*
MS in Computer Science (GPA: 3.7)

Fairfield University, Fairfield CT *May 2013*
BS in Computer Science & Mathematics

EXPERIENCE

Viasat, Inc Jan 2025 - Present
Tech Lead / Architect Foundations *Remote*

- Led design and implementation of an internal application platform, including architecture decisions for authentication, service mesh integration, and multi-tenancy.
- Onboarded multiple product teams, providing architectural guidance, migration planning, and stakeholder coordination during platform transitions.
- Designed templates and automation for application onboarding, integrating external-secrets and Helm charts to standardize deployments with network policies and observability.
- Presented at KubeCon 2025 CNCF Hosted Events on "There Is No Silver Bullet: The Complexities of Building IDPs", sharing insights on internal developer platform challenges and architectural trade-offs.

Viasat, Inc Jan 2020 - Jan 2025
DevOps Technical Lead *Boston, MA / Remote*

- Led a DevOps team to build a cloud-native API platform enabling secure, reliable microservice deployment, increasing deployment frequency from weeks to days.
- Scaled the platform to support over 120 production workloads across a dozen development teams spanning multiple business functional areas.
- Implemented GitOps deployment pipelines using Helm, Kustomize, and ArgoCD, reducing microservice time-to-hello-world from months to minutes.
- Created configurable authentication and authorization policies using Istio and automated CVE scanning to improve security posture; platform apps passed 3 external penetration tests.
- Built monitoring and alerting infrastructure with Prometheus and Alertmanager using service-mesh telemetry, reducing time-to-restore-service.

Viasat, Inc Oct 2016 - Jan 2020
Software Engineer *Boston, MA*

- Led development of Viasat Browser, a web browser optimized for satellite networks using machine learning and clickstream data.
- Implemented a scalable Tornado-based web application on AWS to process and store browsing records to S3 from hundreds of simultaneous WebSocket connections.
- Developed and integrated behavior-driven automation testing into a Jenkins CI/CD pipeline to validate scalability and optimize ECS and EC2 scaling policies.

Rensselaer Polytechnic Institute May 2014 - May 2016
PhD Candidate - Research Assistant *Troy, NY*

- Developed an online architectural sketching interface that allows users to interactively experiment with the effect of room geometry, material, and window placement on light distribution.
- Conducted user studies with architectural novices and professionals, driving iterative improvements to the sketching interface.

TECHNICAL BACKGROUND

Languages	Python, Bash, Go, C++, JavaScript (ordered by proficiency)
Cloud	Kubernetes, Istio, Cilium, ArgoCD, Prometheus/Grafana, Helm, Kustomize, Rancher
AWS	CloudFormation, EKS, VPC, ECS, EC2, IAM, S3, EBS, RDS, ElastiCache, CloudWatch
DevOps Tools	Terraform/Terragrunt, Docker, Github Actions, Prisma Twistlock, Elasticsearch/Kibana, Jenkins, Vault, Ansible
Other Tools	Github, Vim, Jira, Confluence