MAX J. ESPINOZA

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EDUCATION

Boston College, Chestnut Hill MA *Jan 2019 - Present*
Masters in Business Administration

Rensselaer Polytechnic Institute, Troy NY *May 2016*
MS in Computer Science

GPA: 3.71

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

TECHNICAL BACKGROUND

Languages	Python, Bash, C++, Javascript (*proficiency ordered*)
Cloud Agnostic	Kubernetes, Istio Service Mesh/Envoy, Prometheus/Alertmanager, Helm, Kustomize, Rancher
AWS	CloudFormation/Troposphere, VPC, ECS, EC2, IAM, S3, EBS
DevOps Tools	Docker, Prisma Twistlock, Elasticsearch, Kibana, Filebeat, Jenkins, Ansible
Other Tools	Git, Vim, Scrum/Kanban, Jira, Confluence

EXPERIENCE

Viasat, Inc January 2019 - Present
DevOps Technical Lead *Boston, MA*

- To securely, easily, and reliably deploy microservices on the cloud I lead a DevOps team to build an API platform with cloud native technologies that increased deployment frequency from weeks to days.
- To simplify Kubernetes configuration for app developers, I implemented GitOps deployment pipelines leveraging Helm, Kustomize, and ArgoCD which reduced microservice *Time To Hello World* from months to minutes.
- To secure apps, I created configurable default authentication and authorization policies using Istio; I automated periodic CVE scan reports to monitor/improve apps security standing. As a result, apps passed 3 external security penetration tests.
- To promote DevOps, I set up monitoring and alerting, using Helm charts to create default and extendable Prometheus rules and Alertmanager configurations based on service-mesh collected telemetry which reduced apps *Time to Restore Service*.

Viasat, Inc October 2016 - January 2019
Software Engineer *Boston, MA*

- Led an engineering team in the development and deployment of a smart web browser (Viasat Browser) optimized to improve browsing on satellite Internet networks leveraging both machine learning and click data.
- Implemented scalable Tornado based web application on AWS to process and store browsing records onto S3 from hundreds of simultaneous WebSocket connections.
- Developed and integrated behavior-driven automation testing into a Jenkins CI/CD pipeline to test application scalability and aid in optimizing ECS and EC2 scaling policies.

Rensselaer Polytechnic Institute May 2014 - May 2016
Lead 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.
- Led the development, design, and implementation of extensions to our daylighting sketching interface.
- To improve our sketching interface I conducted user studies on both architectural novices and professionals that resulted in the continued development of our tool.