

ALEX COHEN

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SUMMARY

- Self-motivated and ambitious Senior Kubernetes Solutions Engineer with experience automating workflows, creating deployments with Ansible and Terraform via Gitlab CI/CD pipelines and Github Actions seeking Solutions or Software Engineering positions.
- Founder and CEO of a website that performs complex market analysis on virtual economic systems.
- Manager of a small team of 10 developers and lead SRE manager for production server infrastructure.
- Adjunct Professor of Computer Science.
- Over 10+ years of experience working with technology and infrastructure at the forefront of cutting-edge Silicon Valley startups and major global technology corporations.
- Versed in cloud architecture, administration of production and development servers within multi-cloud environments, creation of internal tools, with a focus on developer process automation and supporting production SAAS clusters.
- Past experience with on-call rotations, active developer support and debugging of internal testing clusters.
- Highly technical and knowledgeable; serves as a key contributor in support of technical team projects. Communicates well; develops productive working rapport with others at all levels.

EXPERIENCE

Founding Senior Solutions Engineer

NightVision LLC.

November 2023 - Present, Miami, FL

- Founding solutions engineer at NightVision Inc. engaged in developing and managing the following teams: Product R&D, Product CI/CD testing, Training, Documentation, Sales Engineering and Customer Success.
- Developed continuous integration/continuous delivery (CI/CD) model for running Dynamic Application Security Testing resulting in 95% faster deployment of new features and 20% cost savings for customer security scans.
- Working with Python Flask, FastAPI, Django, .NET, JavaScript Express, Ruby on Rails, Java Spring, PHP, and more!
- Developing revolutionary application logging integrations with docker, DataDog, Splunk and Grafana.
- Integrating full co-pilot end to end AI security patching system to directly patch code vulnerabilities and make pull requests.

Founder and CEO

Saddlebag Exchange Inc

April 2022 - Present, US, FL, Miami

- Creator and lead developer for the web application "Saddlebag Exchange" or saddlebagexchange.com which maintains thousands of users.
- Saddlebag Exchange provides market trading tools and economic analytics over several virtual marketplaces with millions of daily traders.
- Personally developing new market quantitative finance solutions to provide our users with search methods to identify profitable trade opportunities, market trade monitoring, market alerting and further insight into the virtual marketplace.
- Recruited and managed a growing dev team of over 10 engineers.
- Creator of the open-source organization ff14-advanced-market-search where we maintain the codebase used for Saddlebag Exchange.
- Lead developer of custom API backend systems running on python flask.
- Development of chat bot functions and alerting systems.
- Overseeing frontend development team working with React framework.
- Actively managing domains, production Kubernetes clusters, and relational database infrastructure hosted in cloud IaaS infrastructure.
- Established community forum exchange and support systems.
- Developing strategies for SEO and Google AdSense as a revenue system.
- Manages advertising and product promotion to expand our user base.

Adjunct Professor of Computer Science

Dade College

September 2022 - Present, US, FL, Miami

- Teaching Python, Docker/Linux, Cloud Computing, AWS, Azure, GCP, SQL database and Scripting Courses

Senior Solutions Engineer

Volterra Inc / F5 Inc

March 2020 - Nov 2023, US, WA, Seattle

- Management of transition and team scaling from private company to multinational public corporation.
- Managing Automation components and team task assignment of Volterra Solutions under F5 reorganization.
- Contributing to Volterraedge open source GitHub repositories.
- Creating an open-source version of the "Altered-Carbon" project with functionality on both GitHub Actions and Gitlab CI/CD.
- Continuation of Volterra Solutions Engineering role after acquisition by F5.
- Advanced CI/CD pipeline design in Gitlab via the "Altered-Carbon" project to deploy and provide regression testing of volterra solutions on a daily basis in demo, staging and production environments.
- Writing public blog posts of projects and contributing to open-source projects.
- Working daily with Docker and Kubernetes on the Volterra Kubernetes Networking Solutions.
- Deployment of servers and sites in multi-cloud environments within AWS, GCP, Azure, Vsphere / VMWare, Bare Metal, Vagrant, Minikube, etc with Terraform Templates.
- Terraform template, module and provider design using HCL and GoLang.
- Use of Centos, Ubuntu and Alpine containers / servers.
- Creation and design of technical deployment guides with written and video walkthroughs of deployment

Site Reliability Engineer

Illumio Inc

September 2016 - February 2020, US, CA, Sunnyvale

- Contributed technical knowledge and dedication to the world leader in Micro-Segmentation and Nano-Segmentation technology, used to create software firewalls that can lock traffic down to a single port and protocol on managed workloads.
- Served as a key and integral member of the SRE Team of 4 to 6 engineers whose role is to maintain the cluster for the companies SAAS offering, manage the AWS accounts and resources for both development and production environments. Assisted the developers in the creation of internal automation tools and in debugging test clusters running the Illumio Software.

Further Technical Contributions with Illumio:

- Engaged in on-call rotations to monitor SAAS and production resources.
- Performed automated AWS IAM management and cluster deployments with cloud formation
- Performed production, staging and testing cluster deployments using Ansible and Chef.
- High knowledge of PagerDuty API; created an automated on-call production ticketing system.
- Created an automated multi-region multi-account pen-testing tool utilizing NMap and Edgescan.
- Regular use of Jira, Stash, Slack, and Confluence.
- Worked with Concourse CI/CD pipelines managing per branch unit tests.
- AWS administration using EC2, EBS, ELB, RDS, S3, VPC, Route 53, GuardDuty, SQS, SNS, Cost Explorer, CloudWatch, resource tagging, IAM user management, AWS CLI tools, ruby AWS-SDK, and various AWS APIs.
- Managed dozens of AWS accounts with resources spread across multiple regions often containing over 10,000 resources.
- Creation and maintenance of auto-tagging lambda functions for organization and AWS cost analysis.
- Created and maintained developer-facing slack bot to manage multiple AWS EC2 resources and cost analysis with SQS and concourse.
- Audited SSH keys, AWS user passwords, and AWS IAM access keys to comply with SOCII audits.

Facilitating Training:

- Provided 3-day technical training boot camp introducing new users to the Illumio product.
- Responsible for the administration, upgrades maintenance and deployment of over a dozen training and product demo production SAAS clusters.
- Administration and deployment of Illumio product clusters on workloads, labels, policy, rules, rulesets, vulnerability maps, CLI tools and HTTP API control over resources on Illumio systems.
- Gained Illumio associate product certification.
- Taught internal 3-day boot camp training courses on the Illumio product, covering 24 hours of material (8 hours per day).
- Improved and updated Illumio training lab environments working with workloads and flows.
- Assisted with SAAS selenium smoke test automation using Jenkins.

INTERNSHIP

PayPal Inc

June 2016 - August 2016, US, CA, San Jose

- Developed a container orchestration and deployment system using Docker Swarm.
- Created Infrastructure as Code with Terraform.
- Worked in Openstack, AWS and GCP platforms.

EDUCATION

Rochester Institute of Technology, Rochester, NY

Graduated 05/2019

M.S. in Networking and Systems Administration

Dowling College, Oakdale, NY

Graduated 12/2014

B.S. in Applied Mathematics

SKILLS

- **Programming and Database Languages:** Over 10 years of advanced experience in Python, Bash, Ruby, Ansible, Terraform, Git collaboration tools, Gitlab CI/CD, GitHub Actions, YAML, JSON, HTTP API scripting. Python Flask, Django, Fastapi. SAST, DAST, IAST, api application security.
- **Moderate experience in** GoLang, C++, C#, Java, MySQL, JavaScript, HTML, React
- **Linux / Unix Operating Systems:** Ubuntu, Red Hat (RHEL), CentOS, Alpine, Mac OS X
- **Virtualization and Cloud Tools:** Kubernetes, Vagrant, Virtualbox, Docker, Amazon Web Services (EKS, EC2,RDS, S3, Route 53, CloudWatch, IAM user management, Cloudformation, AWS CLI tools and APIs) and similar technologies in Azure, GCP, Digital Ocean, VSphere and more.