Anthony Oliver

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About

I am an experienced DevOps and cloud infrastructure engineer with a proven track record of co-founding and scaling a venture-backed startup, obtaining a patent, and authoring a technical book. My expertise spans full-stack development, automation, and Kubernetes-native systems, with hands-on experience in architecting, deploying, and optimizing cloud solutions across AWS, GCP, and Azure. I've led cross-functional teams, implemented security and DevOps best practices, and helped organizations achieve SOC2 compliance. A lifelong learner, I am passionate about emerging technologies like machine learning, cloud security, and large language models (LLMs). I continuously hone my skills through personal tech projects and maintaining a homelab. I thrive on solving complex problems and driving operational efficiency through automation, scalability, and innovative cloud solutions.

Highlights

- Startup Co-founder (Venture Backed over $80 Million Series C): Sight Machine ↗
- Patent #9955123: Machine-vision system and method for remote quality inspection of a product ↗
- CKA: Certified Kubernetes Administrator ↗
- Author of Computer Vision book on Oreily: Practical Computer Vision with SimpleCV ↗
- Main contributor on open source project with thousands of users: SimpleCV ↗
- Have worked in all major cloud venders (AWS, GCP, Azure, IBM)
- Helped Company obtain SOC2 Compliance

Experience

HERE Technologies - Lead Devops Engineer

Remote
Apr 2021 – Oct 2024

- Implemented DevOps best practices using Kubernetes, Gitops, and Gitlab across 10 cross-functional teams
- Developed an automated deployment tool with integrated testing, rollback, and version control, reducing manual deployment errors by 25%.
- Led cost reduction initiatives that optimized team setups, reducing organizational spend by 15% annually.
- Established and maintained DevOps and security standards across the organization, resulting in a reduction in security vulnerabilities, and shift-left for remediation.
- Developed and executed a proof of concept to migrate Spark workloads from AWS EMR to Kubernetes, achieving a 25% reduction in operational costs and improving resource utilization efficiency.

Sysdig - Senior Infrastructure Engineer

Remote
Oct 2020 – Apr 2021

- Maintained and optimized AWS and IBM Cloud environments, overseeing system health, scaling, and automation using Terraform and Kubernetes
- Automated and supported Kubernetes clusters, managing underlying VMs, storage, and databases.
- Served as an SRE, managing incident responses and uptime monitoring for thousands of customers using Prometheus and own tooling (sysdig monitoring), with 99.9% SLA compliance.
- Managed cloud infrastructure for monitoring other companies' systems using Sysdig, Prometheus, and Grafana, ensuring 99.9% system uptime and proactive issue resolution.

Sight Machine - Co-Founder / Lead DevOps Engineer

Ann Arbor, MI / Remote
Apr 2011 – Oct 2020

- Scaled company from 2 to over 100 employees, developing and deploying software running 24/7 in production environments for Fortune 500 companies, driving 10x revenue growth.
- Achieved SOC2 compliance, managing complex customer migrations across AWS, GCP, and Azure without service disruption, improving customer acquistion by 15%.
- Developed custom in-house tools using Python and Flask for automated deployment, and engineered full-stack solutions for edge device configuration, reducing setup time by 80%.
- Built a real-time vision inspection system for Chrysler, improving defect detection accuracy by 15% and reducing inspection time by 25%, outperforming systems across 11 plants.

Switchback - **Web Developer**

Ann Arbor, MI
Nov 2010 – Apr 2011

CEC Controls - **Vision System Engineer**

Wixom, MI
Apr 2008 – Oct 2010

Applied Manufacturing Technologies - **Robotics Engineer**

Wixom, MI
Apr 2008 – Oct 2010

Google - **Summer of Code Student**

Remote
June 2007 – Aug 2007

Technologies

DevOps & CI/CD Tools: Kubernetes, kOps, Docker, Helm, Helmfile, ArgoCD, GitOps, Jenkins, CircleCI, GitLab CI, TravisCI, GitHub Actions, Telepresence, StackStorm

Infrastructure-as-Code & Automation: Terraform, Ansible, CDK, Packer, Chef

Monitoring, Logging & Incident Response: Prometheus, Grafana, Elasticsearch, Kibana, Fluentd, Splunk, Sysdig, Sentry, RabbitMQ, Kafka, PagerDuty, OpsGenie

Cloud Platforms: AWS, GCP, Azure, IBM Cloud, Digital Ocean

Security & Compliance: Vault, AWS Secrets Manager, Open Policy Agent (OPA), Falco, JFrog, Harbor, SOC2 Compliance, Kubernetes RBAC

Data Management & Storage: MongoDB, Cassandra, PostgreSQL, MySQL, Redis

Programming & Frameworks: Python (Master), Java (Intermediate), JavaScript (Intermediate), PHP (Intermediate), C / C++ (Intermediate), Go (Beginner), Flask, PHP, RESTful Services, MVC

Education

BS   **Michigan Technological University** - Software Engineering

Sept 2001 – Dec 2006

- President local Association of Computing Machinery (ACM) Chapter
- Member of the Linux Users Group (LUG)
- Focus: Robotics and Manufacturing

Volunteer

A2Geeks

Non-Profit

- Helped incorporate 501(c)3 non-profit for the benefit of the local community
- Helped organize and execute local events (makerfaire, ignite talks, etc

Google Summer of Code

Mentor

- Helped students develop their skills and work on an open source projects