Anthony Oliver

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About

I have worked in various areas of software development (full stack), including co-founding a venture-backed startup, obtaining a patent, and authoring a technical book. My experience spans from vision-guided robotics to GIS for the Michigan Department of Transportation. I've also collaborated with a Michigan Technological University professor and co-founded a company. I worked for Google as part of the Summer of Code program. I am committed to continuous learning in tech (LLMs, ML, Cloud, Security), maintain a homelab, and enjoy tinkering with tech projects in my spare time.

Highlights

- Startup Co-founder (Venture Backed Multiple Rounds): 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
- Moderator of subreddit with over 14,000+ users
- Have worked in all major cloud venders (AWS, GCP, Azure, IBM)
- Helped Company obtain SOC2 Compliance

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

Experience

HERE Technologies - Lead Devops Engineer   Remote
                                                                                        Apr 2021 – present
- Implemented DevOps best practices, streamlining deployment processes across cross-functional teams.
- Developed an automated deployment tool featuring testing, rollback, semantic version control, and release notes.
- Led cost reduction initiatives, optimizing team setups and reducing organizational spend.
- Established and maintained DevOps and security standards organization-wide.

Sysdig - Senior Infrastructure Engineer   Remote
                                                                                        Oct 2020 – Apr 2021
- Maintained AWS and IBM Cloud environments within the Cloud Infrastructure team.
- Automated and supported Kubernetes clusters, managing underlying VMs, storage, and databases.
- Served as a Site Reliability Engineer (SRE), supporting thousands of customers on-call.
- Managed infrastructure for monitoring and supporting other companies systems.

Sight Machine - Co-Founder / Lead DevOps Engineer   Ann Arbor, MI / Remote
                                                                                        Apr 2011 – Oct 2020
- Scaled company from 2 to over 100 employees, developing software running 24/7

at Fortune 500 companies.

- Managed Kubernetes (since v1.5) in AWS, GCP, and Azure production environments with advanced configurations.
- Achieved SOC2 compliance and executed seamless customer migrations across AWS, GCP, and Azure.
- Created in-house tools for development and deployment, and engineered full-stack solutions for edge device configuration.
- Supported legacy vision system customer with custom solutions during company transition to manufacturing analytics.
- Built a real-time vision inspection system for Chrysler, outperforming systems in 11 manufacturing 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

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 project, went on to Facebook/Booking.com

Technologies

DevOps Tools: Kubernetes, Docker, CDK, Ansible, Chef, ArgoCD, Terraform, Elasticsearch, Kibana, Prometheus, Grafana, Kafka, RabbitMQ, Sentry, Sysdig, Helm, Helmfile, Fluentd, GitOps, Jenkins, StackStorm, CircleCI, TravisCI, PagerDuty, OpsGenie, Packer, Telepresence, Velero, JFrog, Harbor

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

Backend / Platform: MongoDB, Cassandra, PostgreSQL, MySQL, Redis, Python, Flask, MVC, PHP, RESTful Services

Programming Languages: Python (Master), Java (Intermediate), JavaScript (Intermediate), PHP (Intermediate), C / C++ (Intermediate), Go (Beginner)