ANTHONY OLIVER

SOFTWARE ENGINEER / DEVOPS ENGINEER / ENTREPRENEUR

ABOUT

Anthony is a technologist and entrepreneur. Attended Michigan Technological University for software engineering with a concentration in robotics and embedded systems. The co-founder of a venture backed start-up. A core developer of a popular open source computer vision library. He is a published author, patent holder, has mentored international students for Google's Summer of Code. Helped establish a local non-profit and incubate a vibrant and productive hackerspace.

I WORK EXPERIENCE

Sight Machine

https://sightmachine.com

April 2011 - Present

Co-Founder / Devops (SRE) Engineer / Applications Engineer

Sight Machine is the category leader for manufacturing analytics and used by Global 500 companies to make better, faster decisions about their operations. Sight Machine's analytics platform, purpose-built for discrete and process manufacturing, uses artificial intelligence, machine learning, and advanced analytics to help address critical challenges in quality and productivity throughout the enterprise.

Highlights

- ◀ Helped grow a company from just 2 people to over 100
- Wrote software that runs at Fortune 500 companies 24 hours a day
- Multiple years experience running Kubernetes (since v1.5) in AWS, GCP, and Azure in Production with various advanced configurations (affitnity, stateful services, cost optimization, on-demand scaling, etc)
- ◀ Managed hundreds of servers in production
- ◆ Obtained SOC2 compliance
- Ran migrations of customers across various cloud providers (AWS, GCP, Azure), with miminal downtime
- \P Built in-house tools to streamline development as well as deployment to production
- ◀ Fullstack engineered solution for configuring edge devices
- Independently supported legacy vision system customer with custom solution (Python, Flask, Elasticsearch, Plotly) and industrial system integration while company transitioned to manufacturing analytics
- Deployed on-premised industrial systems that securely sent data to the cloud for processing
- Built a realtime vision system inspection system for Chrysler that outperformed 11 of their manufacturing plants

Ripple Science

https://ripplescience.com/

November 2018 - December 2019

Consultant / Devops

Ripple Science delivers web-based software and an active registry that facilitates the recruitment and management of research participants for clinical and translational studies. By adapting sales and marketing automation tools to the process of participant recruitment,

© CONTACT

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•	http://anthonymoliver.com
in	LinkedIn https://linkedin.com/in/anthonyoliver
0	Github https://github.com/xamox
Q,	Keybase http://kevbase.io/xamox

m EDUCATION

2001 2006	Michigan Technological University		
	Software Engineering		
	GPA: 3.2 (core)		
2000 2001	Ferris State University Bachelor Software Engineering		

SKILLS

Devops / Infrastructure / Cloud Engineering

Kubernete	s роске	er	AWS	GCP
Azure	Digital Ocea	n	Ansible	Chef
Terraform	Elastics	earch	Kib	ana
Prometheu	ıs Grafa	na	Kafka	RabbitMQ
Senty	Sysdig	Helm	Helr	nfile
Fluentd	GitOps	Jen	kins	StackStorm
CircleCI	TravisCI	Pa	gerduty	OpsGenie
Packer	Telepresen	ice	Velero	JFrog
Harbor				

Security

SOC 2 Comp	liance	Beyond	corp	Zero	Trust
DevSecOps	Oper	OpenVPN		SEC	Falco
Anchore	Clair	Kube-b	ench		
Sysdig Secur	e ku	ıbe-hunte	r Ce	ert-ma	nager
Keycloak	OAuth	2 Proxy	Vault	:	
Kubernetes RBAC Policies					

Ripple empowers its customers to recruit more participants faster.

Highlights

- ◀ Helped with planning and migration to kubernetes
- ◀ Started down path for SOC2 compliance
- Fixed major performance issue with platform where dashboard went from 30-45 seconds to load to under 5 seconds
- Started instituting security best practices
- ◀ Trained new devops FTE hire

Switchback

Attps://switchbackcms.com/ November 2009 – April 2010

Web Developer

Switchback was a Drupal based web development shop. It's primary focus was integration with Drupal and CiviCRM for businesses.

Highlights

- Built the Faculty Memoir Project for the University of Michigan
- ◀ Helped develop membership management tool called Caravan
- Developed web based software and web services for a number of large clients using drupal and civicrm

CEC Controls

https://www.ceccontrols.com/ January 2008 – March 2009

Vision Application Engineer

 $\label{thm:machine Vision Integrator at factories for quality control.} \\$

Highlights

- Designed and programmed various industry standardvision systems for error proofing, traceability, and identification
- ◀ Supported 200+ camera systems for new General Motors Transmission Factory
- Saved significant licensing and software cost by suggesting and installing various alternative open solutions
- Built company website that is still running 11 years later

Google

• https://developers.google.com/open-source/gsoc/2007/ June 2007 – August 2007

Summer of Code Student

An international annual program in which Google awards stipends to students who successfully complete a free and open-source software coding project during the summer.

Highlights

■ Worked on Case Tracker Module for Drupal

Backend / Platform

MongoDB Postgresql Mysql Python
Gevent RESTful Services Flask MVC

PHP

Web Development

HTML Javascript React Drupal

Data Science / Engineer

Jupyter / IPython Notebooks Pandas Scipy

Numpy OpenCV

PUBLICATIONS

Patent: Machine-vision system and method for remote quality inspection of a product

■ USPTO

28 April 2018

♦ https://patents.google.com/patent/US9955123B2/

A machine-vision system for monitoring a quality metric for a product.

Book: Practical Computer Vision with SimpleCV

O'Reily Media

21 August 2012

http://shop.oreilly.com/product/0636920024057.do

Learn how to build your own computer vision (CV) applications quickly and easily with SimpleCV, an open source framework written in Python.

LANGUAGES

4 Duales

4	Python	Master
4	Java	Intermediate
4	Javascript	Intermediate
4	PHP	Intermediate
4	C / C++	Intermediate
4	GO	Beginner

♥ INTERESTS

Mountain Biking

Kickboxing

Guitar

Hiking

Gaming

Snow Boarding

☑ REFERENCES

Roadsoft

A http://roadsoft.org/

June 2007 - August 2007

Web Developer

Road Asset Management Software for the Michigan Department of Transportation

Highlights

- Build web tool that allowed customers to upload MDOT data securely vs. having to mail in CDs / harddrives with the data
- Allowed customers to use the same tool to pull updates vs. having to do traditional method of mailing CDs

VOLUNTEER

Google Summer of Code

• https://www.google-melange.com/archive/gsoc/2012/orgs/simplecv 2012 – 2014

Mentor

Mentors are people from the community who volunteer to work with a student. Mentors provide guidance such as pointers to useful documentation, code reviews, etc. In addition to providing students with feedback and pointers, a mentor acts as an ambassador to help student contributors integrate into their project's community.

Highlights

 Helped students develop their skills and work on an open source project, went on to Facebook/Booking.com

A2Geeks

https://www.a2geeks.org

2010 - 2014

Tresurer & Director

A2Geeks is a 501(c)3 educational non-profit corporation, dedicated to enriching Ann Arbor for creative and innovative people to live, work and play. Founded in 2010 by a dedicated team of volunteers, we are a volunteer operated organization.

Highlights

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

Available Upon Request

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