

# Zachary Andrews

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## Technical

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**Languages** Python | Javascript | Typescript | Go | Java | PHP | SQL | C++ | Bash  
**Technologies** Docker | Kubernetes | AWS | Terraform | Ansible | Prometheus | Grafana | CircleCI | Mongo | MySQL | Redis  
**Concepts** Software Engineering | Cloud Architecture | CICD | Database Optimization | Test Driven Development

## Work History

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### Senior DevOps Engineer

December 2021 – January 2023

Artisight – Remote

- Full stack application development, design and create a monitoring platform to monitor the health of hundreds of IoT devices, optimize the use of on-prem server resources, migrate existing docker architecture to docker swarm, create monitoring and alerts for on-prem servers to ensure health and security compliance, design and build custom networking solutions to comply with customer security requirements, automate the setup and provisioning of new servers using Ansible, create cloud environments to fully replicate on-prem environments using Terraform, responsible for the upkeep, configuration and reliable operation of customers computer systems, upheld and ensured compliance of HIPAA standards, responsible for soc 2 compliance
- **Relevant skills:** Full stack development, docker, docker swarm, agile software development, code deployment automation, system and user management, infrastructure design, network security and design, cloud-based infrastructure development, cutting edge research and development, user access control

### Cloud Infrastructure Engineer

January 2019 – December 2021

Madwire – Fort Collins, Colorado

- Full stack micro service development, create and maintain serverless website hosting architecture, brainstorm with team and product managers to design and build new features, create and maintain microservice infrastructure, create automation suit for CI/CD pipelines, follow industry best practices for code design and structure, build and consume HTTP APIs, manage security over virtual machines and network traffic, support developers infrastructure to ensure seamless development and integration
- **Relevant skills:** docker, kubernetes, agile software development, infrastructure design, network security, Percona database training, development level ups, cloud-based infrastructure development, cutting edge research and development

### DevOps Engineer

March 2017 – December 2018

YouSeeU – Loveland, Colorado

- Deploy and maintain cloud based infrastructure, maintain SaaS infrastructure, automate product deployment, full stack design and development of a consumer facing web application, support customers in a fast paced environment, develop and deploy production software, collaborate with teams to overcome obstacles, create automated testing suite, scale web application and infrastructure, manage CI/CD pipeline, maintain production products, lead of data analytics team, manage large product data sets, create AI software to provide in video analytics, format large data set to industry standards, mentor new developers

### Software Development Intern – Quality Assurance Team

May 2015 – January 2017

CA Technologies – Fort Collins, Colorado

- Part of the QA team responsible for conducting high performance testing, testing and developing new software, demonstrating new software, creating and maintaining virtual machines, developing automation jobs

## Education

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**Bachelor of Science:** Computer Science

December 2016

Colorado State University - Fort Collins, Colorado

## Notable Projects

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### Software Development

- Created a monitor suit with a dashboards and alerts to ensure product health using Prometheus, Python and Grafana
- Used artificial intelligence and machine learning to automatically assess video submissions using AWS Lambda and Python
- Designed and created a monitoring platform for IoT devices to allow tracking the health, location and status of devices
- Designed and managed analytics of big data databases using Python, Mongo and Pandas
- Test automation suite in Jenkins using Bash, Java and selenium
- Created a data spec conversion script to gain a data specification certificate using Python, XML and Caliper

### DevOps

- Created a server less website hosting architecture using Kubernetes, Helm, Docker and TypeScript
- Implemented a continuous integration and deployment pipeline for cloud-based applications using Python and Terraform
- Designed and developed an automated deployment applications using Terraform, Terraspace, Docker Swarm and Ansible
- Create pipelines to setup, provision, and configure brand new servers to run swarm applications