

# Tyler Kluszczynski

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## DevOps Capstone Project - The Planning Parent. November 2018 - Present.

- Reduced CI-CD build times by 66% switching from Ubuntu images to Alpine.
- Built and documented various reusable Terraform modules for AWS services.
- Automated Docker image build and deployment to AWS Elastic Container Registry using GitLab CI.
- Set up Datadog monitoring with AWS Lambda, an IAM role, and an agent ran in daemon mode.
- Built AWS Relational Database instances using Terraform and connected them to Elastic Container Service instances in multiple availability zones with a read-replica instance.
- Completing assignments such as creating a LAMP stack using Ansible and setting up a Prometheus container using a Dockerfile and bash scripting.
- Training a team member in advanced DevOps topics (Terraform modules, container orchestration).
- Integrated Slack with our GitLab repository to update the team of changes and pull requests.

## Personal Projects. January 2019 - Present.

[github.com/tklusz](https://github.com/tklusz) | [gitlab.com/users/tklusz/projects](https://gitlab.com/users/tklusz/projects)

- Created a Kubernetes deployment for my website using AWS, Terraform, Python, Docker and Kubectl.
  - Created Terraform modules for the following AWS services:
    - EKS, ASG, ECR, VPC and IAM (Instance profile, Policies, Groups, Roles and Users).
  - Utilized Python to build a Docker image from a Dockerfile, upload the image to ECR and start a Kubernetes service using the image.
  - Used Terraform to create the Kubernetes master cluster and nodes. Employed EKS for master-cluster deployment, and an ASG with EC2 instances for node deployment.
- Created and deployed a website. Designed it with Adobe XD.
  - The website uses Cloudflare DNS with a TLS origin certificate. It's deployed on GitLab pages and coded with HTML and CSS3.
  - I also hosted the website on DigitalOcean using a droplet, firewall, and multistage CI-CD pipeline using GitLab CI and GitLab Container Registry to store an intermediate container image.
  - Monitoring website uptime using Uptime Robot.
  - <https://www.tylerdevops.com>
- Developed a daily wallpaper changer for Linux distributions using Python.

## DevOps Projects. August 2018 - December 2018.

- Automated website delivery from GitHub to an S3 bucket using CircleCI, then deployed on CloudFront.
- Experience creating the following AWS architecture with Terraform:
  - Core Services - EC2, VPC, EBS, S3, Security Groups.
  - Security - IAM, ACM.
  - Containerization - ECR, ECS clusters and task definitions.
  - Additional Services - Route 53, ALB, RDS, Lambda, ASG, CloudFront.
- Obtained TLS certificates via Let's Encrypt and AWS Certificate Manager.
- Automated EC2 instance configuration with Ansible, using command and shell modules.

## EDUCATION

California State University, Northridge | BS in Computer Information Technology | May 17th.

- GPA: 3.72.
- Upper Division GPA: 3.93.
- Obtained the highest grade in a 400 level databases class with 55 students.
- Dean's List: Fall 2015 - Fall 2018.