

# NATHAN DOUGLAS

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Senior DevOps Engineer with 10+ years' experience leading cloud infrastructure migrations, developing applications, building CI/CD pipelines, and mentoring cross-functional teams to deliver reliable, scalable solutions.

## EXPERIENCE

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### Senior DevOps/Platform Engineer

Agile Six Applications, Inc

Oct. 2020 – Present

San Diego, CA (Remote)

(on contract to the U.S. Department of Veterans Affairs)

- Migrated the VA.gov Check-In Experience product to a new AWS account
- Served as Tech Lead for the VA.gov Content Management System product
- Served on a task force to improve hiring practices for DevOps engineers
- Hired multiple Senior Engineers and a Software Quality Architect
- Contributed to contract proposals and case studies
- Ensured and documented compliance with regulations across multiple products
- Developed and maintained CI/CD pipelines using Jenkins and GitHub Actions

### Senior Software/DevOps Engineer

Convention News Company

Jan. 2016 – Oct. 2020

Midland Park, NJ (Remote)

- Architected infrastructure and built the content and account management services for FutureFlight.aero
- Constructed backend services for Business Jet Traveler and Aviation International News
- Migrated all products from Acquia hosting to AWS, reducing yearly IT operating costs by 70%
- Developed an app to centralize ad sales, subscriptions, and circulation data
- Guided and mentored junior engineers, emphasizing soft skills and engineering best practices
- Created and maintained Vagrant (and, later, DrupalVM) development environments
- Developed and maintained CI/CD pipelines using CodeBuild/CodePipeline

### Software Engineer

DEVONtechnologies

Jan. 2012 – Dec. 2015

Bietigheim-Bissingen, Germany (Remote)

- Developed, launched, and maintained sync technologies for flagship apps
- Collaborated effectively within teams dispersed across six countries and four continents
- Led the adoption of Agile project management, Lean principles, and DevOps methodologies
- Introduced CI/CD pipelines, sharply reducing failure rate and manual testing toil
- Automated certificate and configuration management for release processes

## MAJOR PROJECTS

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### VA.gov Check-In Experience | Terraform, Node.js, AWS, GitHub Actions

Feb. 2024 – Present

CHIP (Check-In Integration Point) allows Veterans to check in for appointments at VA facilities.

LoROTA (Low-Risk One-Time Authentication) allows checking in quickly while protecting PHI/PII.

- Migrated infrastructure for CHIP, LoROTA, and related projects between AWS accounts
- Migrated Infrastructure-as-Code for all projects from CloudFormation to Terraform
- Introduced and wrote Terraform tests for automated testing of reusable Terraform modules
- Introduced and wrote system tests spanning multiple products and their upstream integrations
- Migrated from using IAM service accounts to OIDC role assumption
- Managed compliance and collaboration in ATO (Authority to Operate) and PDB (Product Decision Board) processes

### VA.gov Content Management System | Drupal, PHP, Node.js, Ansible

Oct. 2020 – Feb. 2024

The CMS allows VA.gov content editors to create, edit, and publish content.

Content is delivered to VA.gov via a custom static build system.

- Directed primary development of the CMS's custom modules and ancillary services
- Maintained, upgraded, and refined CI/CD pipelines in GitHub Actions and Jenkins
- Parallelized test suite, reducing test time by 60%
- Led two major version Drupal upgrades of 8 - 9 - 10
- Refactored the CMS' internal content release management system to reduce toil and deployment stress

- Maintained and improved CI/CD pipelines for the content build and release processes
- Developed and documented procedures for disaster recovery, out-of-band deploys, etc
- Developed and maintained DDEV-based local development environments

**FutureFlight.aero** | *Drupal, PHP, Node.js, Ansible, CloudFormation*

Jan. 2019 – Oct. 2020

*FutureFlight is an industry news site with a directory of EVTOL aircraft and related services.*

- Architected server infrastructure for Drupal content management system
- Wrote Lambda function code for subscriber account services
- Designed and implemented infrastructure for subscriber account services
- Designed and implemented data model for EVTOL aircraft directory
- Implemented local development environments using DrupalVM

**Business Jet Traveler** | *Drupal, PHP, CloudFormation*

Jan. 2018 – Dec. 2018

*Business Jet Traveler is a monthly magazine for private jet owners and operators.*

- Designed and implemented data model for aircraft directory
- Wrote a map-based tool to visualize aircraft specifications
- Migrated all infrastructure from Acquia hosting to AWS in CloudFormation
- Implemented and maintained local development environments using Vagrant across multiple OSes

## TECHNICAL SKILLS

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**Languages:** JavaScript, PHP, Bash, Rust, Python, C, Objective-C, Clojure

**Infrastructure-as-Code:** Terraform/OpenTofu/Terragrunt, Ansible, CloudFormation

**Containerization:** Kubernetes, Docker, LXC

**CI/CD:** GitHub Actions, Jenkins, AWS CodeBuild

**Logging/Monitoring:** Datadog, AWS CloudWatch, PagerDuty, Sentry

**Methodologies:** DevOps, Agile, GitOps, DevSecOps, Scrum, Kanban

**Miscellaneous:** JSON:API, GOFAL,  $\LaTeX$

## EDUCATION

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**University of Nevada at Las Vegas**


Las Vegas, NV


*Bachelor of Arts in Computer Science*


*May 2009 – Dec 2011*


## PERSONAL PROJECTS (JUST FOR FUN)


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 **Blackpool:** An implementation of the LoX programming language and virtual machine (*Rust*)

 **Goldentooth:** Raspberry Pi Kubernetes cluster projects (*Ansible, Terraform, Bash*)

 **Greenstone:** A cycle-accurate NES emulator (*Rust*)

 **Sunhouse:** A simple ray-tracing renderer (*Rust*)

 **Oldstones:** An implementation of Tim Boring's simple orchestrator (*Go*)

 **CLORK:** A port of *ZORK I* from the original microcomputer ZIL (*Clojure*)