

NATHAN DOUGLAS

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EXPERIENCE

Senior DevOps/Platform Engineer

Oct. 2020 – Present

Agile Six Applications, Inc

San Diego, CA (Remote)

- Migrated the Check-In Experience product to a new AWS account
- Served as Technical Lead for the VA.gov Content Management System
- 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

Senior Software/DevOps Engineer

Jan. 2016 – Oct. 2020

Convention News Company

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
- Developed an app to centralize ad sales, subscriptions, and circulation data
- Migrated systems from Acquia hosting to AWS IaC, reducing IT operating costs by 70%
- Guided and mentored junior engineers, emphasizing soft skills and engineering best practices
- Created a Vagrant-based solution for local development

Software Engineer

Jan. 2012 – Dec. 2015

DEVONtechnologies

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 aspects of certificate and configuration management

MAJOR PROJECTS

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

Feb. 2024 – Present

- Migrated infrastructure for products between AWS accounts
- Migrated Infrastructure-as-Code 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

- Directed development of Drupal CMS, which provides content for VA.gov
- Maintained and improved infrastructure for Drupal CMS
- Maintained and improved infrastructure for content releases on VA.gov
- Parallelized test suite for Drupal CMS, reducing test time by 60%
- Developed and documented procedures for disaster recovery, out-of-band deploys, etc
- Led major version upgrades of 8 - 9 and 9 - 10 for Drupal CMS
- Developed and maintained custom modules for Drupal CMS

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

Jan. 2019 – Oct. 2020

- 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, CI/CD pipelines, and QA best practices

Business Jet Traveler | *Drupal, PHP, Node.js, Ansible, Terraform, GitHub Actions*







Jan. 2018 – Dec. 2018

- 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 IaC
- Implemented local development environments, CI/CD pipelines, and QA best practices

TECHNICAL SKILLS

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, L^AT_EX

SIDE PROJECTS (JUST FOR FUN!)

 **Oldstones:** An implementation of Tim Boring's simple orchestrator (*Go*)
 **Goldentooth:** Raspberry Pi Kubernetes cluster projects (*Ansible, Terraform, Bash*)
 **Blackpool:** An implementation of the Lox programming language and virtual machine (*Rust*)
 **Sunhouse:** A simple ray-tracing renderer (*Rust*)
 **Greenstone:** A cycle-accurate NES emulator that's somewhere in the PPU implementation (*Rust*)
 **CLORK:** A port of *ZORK I* from the original microcomputer ZIL (*Clojure*)

EDUCATION

University of Nevada at Las Vegas
Bachelor of Arts in Computer Science

Las Vegas, NV
May 2009 – Dec 2011