

# Brian Dunbar

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## Summary

Senior DevOps Engineer with a track record of optimizing CI/CD pipelines, leading cloud migrations, and automating infrastructure in AWS, OpenStack, and hybrid environments. Expert in Terraform, Ansible, and Kubernetes, with hands-on experience in hardware integration and advanced security practices. Adept at troubleshooting, mentoring, and building scalable, efficient systems.

## Skills

- **Languages:** BASH, Python, YAML
- **Cloud & Infrastructure:** AWS, OpenStack, Terraform, Kubernetes, Helm
- **Automation Tools:** Ansible, Jenkins, GitLab CI/CD, GitHub CI/CD
- **Networking:** F5 Big-IP, Juniper
- **Operating Systems:** Linux (RHEL, Ubuntu), Windows Server, Solaris
- **Specialized Hardware:** Xilinx ZCU-102 FPGA boards
- **Infosec:** PGP key validation, infrastructure security
- **Other Tools:** Docker, NPM, Chef, Helmfile

## Professional Experience

Cardinal Peak | 2021 - Present

### Senior DevOps Engineer

- **Increased CI/CD efficiency**, cutting pipeline run times from an average of 1 hour to an average of 20 minutes, improving productivity and accelerating delivery cycles.
- **Collaborated with developers and senior stakeholders** to identify pipeline and development support needs, translating their requirements into clear, actionable user stories for the team to execute.
- **Automated hardware integration** with Xilinx ZCU-102 FPGA boards for regression testing, enabling end-to-end validation in the pipeline.
- **Streamlined branch management**, consolidating multiple 'main' branches into one, reducing complexity and boosting collaboration across teams.
- Developed **custom Terraform modules** to automate cloud resource provisioning, resulting in a repeatable, scalable infrastructure.
- Built **Ansible playbooks** to manage hybrid environments, reducing manual intervention and ensuring system reliability.
- **Led cloud infrastructure projects** on AWS and OpenStack, expanding capacity from 10k to 50k subscribers without downtime.
- **Implemented security best practices**, improving code integrity and compliance with internal standards.

**Tacen | 2021**

### **DevOps Engineer**

- **Strengthened platform security**, developing processes for PGP-based code-signing validation in a decentralized finance environment.
- **Built and maintained Docker and NPM repositories**, automating deployments on Linode Kubernetes Engine using Helm and Terraform.
- **Developed and optimized GitLab CI pipelines**, enabling rapid, secure application deployment.

**Universal Music Group | 2020 - 2021**

### **Senior Systems Engineer**

- Developed **processes to identify and decommission abandoned AWS resources**, saving \$60k annually by optimizing cloud spend.
- **Migrated legacy services to AWS**, saving \$2M annually through cloud cost optimization.
- Automated server provisioning using **Chef**, improving efficiency across thousands of systems.

**Mission | 2015 - 2020**

### **Senior Cloud Engineer**

- Led **cloud migration projects into AWS** with zero downtime, driving cost savings and operational efficiency.
- **Defined tiered support structures** that reduced incident response times and improved customer satisfaction.
- **Tier-3 Support** for a broad range of managed hosting services, ensuring engineering excellence and mentoring junior staff.

## **Previous Roles**

**U.S. Marine Corps | Programmer, Rifleman**

Served as a rifleman before transitioning into programming and data communications, working on LAN/WAN infrastructure and small computer systems.

## **Education & Certifications**

AWS Certified Solutions Architect - Associate (2017)

Solaris 9 Advanced Administration (2003)

## **Hobbies**

Poultry farming