

Tyler Boyd

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SUMMARY

Motivated Cloud Engineer with experience using Software as a Service (SaaS), Infrastructure as a Service (IaaS), and Platform as a Service (PaaS) for multiple clients. Extensive experience utilizing AWS for on premises and cloud services. Experience in deploying web applications and utilizing its microservices through serverless event driven architecture or containerization (Docker). Involvement in Agile/DevOps practices, ensuring smooth infrastructure deployment by utilizing Terraform Infrastructure as a Code (IaC), BASH shell scripting, Jenkins, etc.

PROFESSIONAL EXPERIENCE

Data Service Group|Cloud Operations Engineer|Bear, DE| January 2022 - Current

- **Container Orchestration:** Led the successful migration of an on-premise application to Amazon Elastic Container Service (ECS) for iCare Medical, delivering a presentation on ECS capabilities.
- **Enhanced Website Performance:** Regularly configured on-premises load balancers for DR Financial using HAProxy & NGINX, resulting in a 25% improvement in website traffic management & a smoother interaction between frontend & backend services.
- **Infrastructure Optimization with Terraform:** Achieved a 30% reduction in AWS infrastructure costs for iCare Medical by utilizing Infracost to identify & eliminate redundancies, while enhancing automation.
- **CI/CD:** Collaborated with developers to optimize application code & reduce dependencies. Managed Docker images for microservices, supporting live website updates, order history functionality, & program registration. Maintained repositories on GitHub, ECR, & DockerHub.
- **AWS Environment Provisioning:** Leveraged Terraform-based infrastructure-as-code solutions to provision new environments on AWS (VPCs, subnets, NAT Gateways, ELB, etc.) in less than 10 minutes, resulting in a ~30% increase in deployment frequency.
- **Bash Scripting:** Reduced lead time to change by 45% through Bash scripting automation for testing & deployment processes. Manually configured EC2 servers to install Python applications & dependencies, including load balancers.
- **Project Visualization & Team Collaboration:** Worked closely with cloud architects to design project frameworks & visuals using tools like draw.io. Provided constructive feedback, enhancing project clarity & effectiveness.
- **Optimized Application Deployment:** Successfully deployed Python & Node.js applications on EC2 servers, containerized them with Docker, & created Dockerfiles for streamlined installation & dependency management, reducing deployment time by 20%.
- **Containerization:** Effectively utilized Docker Compose to deploy & manage containers, including WordPress & MariaDB, supporting the company's website & database maintenance.
- **AWS Migration with Terraform:** Collaborated with infrastructure & configuration teams to migrate a multi-tier app to AWS. Secured the environment with Terraform, utilizing VPCs, Security Groups, & more, ensuring state management with an S3 backend.
- **Enhanced Team Collaboration:** Coordinated with development teams to manage Terraform code & Docker updates through GitHub & DockerHub, ensuring seamless branch management & version integration, which improved overall team efficiency & reduced integration conflicts.

LetBob Technologies|Linux Administrator Intern|Washington, DC|May 2021 - June 2022

- **Permissions & User Management:** Administered Linux services by managing file & directory permissions, ensuring proper user & group access through command-line tools.
- **Software Installation:** Automated software package installations & updates via Bash scripting, maintaining system security & efficiency.
- **System Monitoring & Inventory:** Conducted daily system monitoring, documenting server performance issues such as high CPU usage & storage capacity, & reporting findings to senior administrators.
- **Security Management:** Secured servers against unauthorized access by configuring SSH for remote access & regularly patching vulnerabilities.

TECHNICAL SKILLS

Technical Skills:

- **Infrastructure as Code (IaC):** Terraform
- **Linux:** Server SSH, Commands, Server Patching, Upgrading, & Updating
- **Cloud Technologies:** Amazon AWS (including S3 buckets), Terraform, Repository, Lambda
- **Containerization:** Docker, Docker Compose, Docker Swarm
- **Continuous Integration/Continuous Deployment (CI/CD):** Git, AWS, Jenkins, Agile
- **Scripting & Automation:** Bash Shell Script, LAMP Stack
- **Version Control:** Git, GitHub
- **Collaboration & Communication:** Problem Solver, Adaptable, Clear Communicator, Jira
- **Operating Systems:** Linux, Windows, MacOS, Unix, Virtual Machines, Database
- **Database:** MySQL

EDUCATION

University of Maryland, College Park

Bachelor of Science in Computer Science

University of Maryland Baltimore County

Information Technology