

Tyler Boyd

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Silver Spring, MD

Dedicated Cloud Engineer with 3+ years of hands-on experience in designing and deploying scalable cloud solutions using Infrastructure as Code (Terraform). I have successfully led projects to build application load balancers (ALB) using AWS Console and Terraform, optimizing system performance and ensuring seamless traffic management. My expertise in containerization includes efficiently Dockerizing applications on Linux servers, significantly reducing deployment time and enhancing application reliability. Passionate about leveraging my skills to drive innovative cloud solutions, I am eager to bring my technical acumen and problem-solving abilities to a company where I can contribute to improving infrastructure efficiency and delivering robust cloud-based services.

EXPERIENCE

iCare Medical|*Cloud Operations Engineer*|Texas City, Tx|Sept 2023 - May 2024

- **Container Orchestration:** Led the successful migration of an on-premise application to Amazon Elastic Container Service (ECS). Delivered a presentation on ECS, showcasing its capabilities through a sample demonstration.
- **Enhanced Website Performance:** Regularly configured on-premises load balancers using HAProxy and NGINX, resulting in a 25% improvement in website traffic management and a smoother interaction between frontend and backend services.
- **Infrastructure Optimization with Terraform:** Achieved a 30% reduction in AWS infrastructure costs by utilizing Infracost to identify and eliminate redundancies, while enhancing automation.
- **Website and Docker Management:** Collaborated with developers to optimize application code and reduce dependencies. Managed Docker images for microservices, supporting live website updates, order history functionality, and program registration. Maintained repositories on GitHub and 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 and deployment processes. Manually configured EC2 servers to install Python applications and dependencies, including load balancers.
- **Project Visualization and Team Collaboration:** Worked closely with cloud architects to design project frameworks and visuals using tools like draw.io. Provided constructive feedback, enhancing project clarity and effectiveness.

Concierge Sleep & Wellness|*Cloud Tech Intern*|Houston, Tx|January 2022 - June 2023

- **Optimized Application Deployment:** Successfully deployed Python and Node.js applications on EC2 servers, containerized them with Docker, and created Dockerfiles for streamlined installation and dependency management, reducing deployment time by 20%.
- **Containerization:** Effectively utilized Docker Compose to deploy and manage containers, including WordPress and MariaDB, supporting the company's website and database maintenance.
- **AWS Migration with Terraform:** Collaborated with infrastructure and configuration teams to migrate a multi-tier app to AWS. Secured the environment with Terraform, utilizing VPCs, Security Groups, and more, ensuring state management with an S3 backend.
- **Enhanced Team Collaboration:** Coordinated with development teams to manage Terraform code and Docker updates through GitHub and DockerHub, ensuring seamless branch management and version integration, which improved overall team efficiency and reduced integration conflicts.

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

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

- **Security Management:** Secured servers against unauthorized access by configuring SSH for remote access and 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
- **Scripting & Automation:** Bash Shell Script, LAMP Stack
- **Version Control:** Git, GitHub, GitLab
- **Collaboration & Communication:** Problem Solver, Adaptable, Clear Communicator
- **Operating Systems:** Linux, Windows, MacOS, Unix, Virtual Machines, Database
- **Database:** MySQL