

Jonathan Rooke

Platform Engineer | Software Engineer

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nimbledev.io

Career Profile

Software and Platform Engineer with 20+ years of experience building highly available, resilient cloud infrastructure and automation systems. Extensive consulting experience with Fortune 500 clients, supporting platform modernization and cloud migration initiatives. Deep background in Linux systems, cloud-native operations (AWS, Kubernetes, Docker), infrastructure-as-code (Terraform, Ansible), observability (Datadog, Splunk, CloudWatch), and 24x7 incident management. Passionate about scaling platforms, reducing operational toil through automation, and delivering reliable, client-facing technical solutions at scale.

Key Technologies

- Languages & Scripting: Python, Bash, Go (basic), SQL, Flask, REST APIs
- Cloud & Infrastructure: AWS (Lambda, EKS, ECS, CloudFront, S3, Route53), Terraform, Kubernetes, Docker, OpenShift
- Observability: Datadog, Splunk, CloudWatch, Kibana, Grafana
- Automation & CI/CD: Jenkins, Apache Airflow, Git, Bitbucket, Ansible Tower
- Databases: PostgreSQL, MySQL, SQLite3, SQLAlchemy
- Operating Systems: Linux (RedHat, Ubuntu), AIX, Solaris
- Other Tools: Fluent Bit, Vault, Packer, Docker Compose

Career Highlights

- **Site Reliability Leadership:** Led operational management for Fortune 500 web hosting accounts, coordinating 24x7 infrastructure operations and acting as the primary escalation point for critical incidents.
- **Scalable Platform Design:** Built a Python-based telemetry and batch data pipeline processing 4,000+ daily results into an AWS data lake, reducing processing latency and improving observability.
- **Disaster Recovery Automation:** Designed and deployed a push-button disaster recovery system for 50+ production servers using Terraform and Ansible, enabling rapid recovery in failure scenarios.
- **Observability Engineering:** Refactored Python applications to integrate code-based telemetry; created Splunk, Datadog, and CloudWatch dashboards, monitors, and alerts to enable real-time system health insights.
- **Cloud-Native Operations:** Deployed and managed Kubernetes and OpenShift environments to orchestrate containerized applications, ensuring high availability, scaling, and resource efficiency.
- **Infrastructure-as-Code Leadership:** Migrated legacy CloudFormation environments to Terraform and Ansible, automating environment builds, upgrades, and recovery deployments.

Professional Experience

JPMorgan Chase (JPMC) – Jersey City, NJ

Vice President – Lead Software Engineer

Dec 2020 – Aug 2024

- Developed a scalable Python data pipeline processing 4,000+ daily transcription results into an AWS data lake using Lambda and S3.
- Refactored multistage Python applications to embed code-based telemetry, enhancing real-time monitoring and observability.
- Built and maintained Kubernetes and Airflow environments for orchestrating distributed workloads and automating telemetry ingestion.
- Designed and deployed Splunk, Datadog, and CloudWatch observability frameworks, improving incident detection and reducing diagnostic times.
- Engineered Terraform-based disaster recovery system enabling push-button redeployment of a 50-server production environment.

CVS/Aetna – Manhattan, NY

Senior Software Developer

Nov 2018 – Feb 2020

- Led AWS cloud services team supporting 30+ AMI instances and multiple ELBs, optimizing deployments for performance and reliability.
- Developed and deployed Lambda-integrated CloudFront CDN solutions, improving edge delivery resilience.
- Converted legacy CloudFormation stacks to Terraform; automated ECS AMI builds using Packer to streamline deployments.
- Implemented VPN and SSL certificate management systems, ensuring secure and reliable developer access and operations.
- Conducted initial hiring and training of DevOps team members, enhancing cross-functional capabilities.

Bank of America – Manhattan, NY

DevOps Engineer

Nov 2017 – Oct 2018

- Initiated and led containerization of JBoss and Tomcat workloads into OpenShift environments, improving scalability and deployment agility.
- Automated CI/CD build processes using Jenkins, Docker, and Vault for production microservices.
- Developed immutable infrastructure patterns using YAML and JSON configuration templates.
- Abstracted application secrets and credentials into Vault, enhancing production security.

International Business Machines (IBM) – White Plains, NY

Systems Integrator Professional

Sept 1999 – Sept 2017

- Acted as lead engineer for Fortune 500 web hosting accounts, managing large-scale infrastructure for high-traffic production websites across geographically distributed data centers.
- Led a global mail infrastructure team managing 120+ RedHat servers across Brazil, India, and the U.S., ensuring 24x7 service availability and operational stability.
- Served as primary escalation point for production incidents, directing service restoration efforts and leading cross-team investigations to prevent recurrence.
- Engineered and maintained high-availability Unix and Linux systems (RedHat, Solaris, AIX) across web-hosting and internal corporate environments.
- Automated thousands of system administration tasks using Bash and Perl, improving operational efficiency, patching, and compliance at scale.
- Delivered storage, networking, and datacenter integration services supporting resilient and scalable enterprise web infrastructures.

GitHub

- <https://github.com/jdrgithub>

Certifications & Training

- **AWS Certified Solutions Architect – Associate** (2018)
- **Certified Kubernetes Application Developer** (2021)
- **Continuing Education:** University of Minnesota, C/C++ Certificate Program (1998)

Education

- **B.A.** – University of St. Thomas, MN (1992)

Tech Blog

- <https://substack.com/@jonathanrooke>