

Christopher M. Hobbs, Backend Software and DevOps Engineer

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Summary

Hands-on engineer with two decades of experience creating automated infrastructure and resilient backend services across a wide array of industries both public and private.

Core Technologies

Programming Languages: Proficient: Python, Ruby, Bash; Familiar: Go

Development Concepts and Frameworks: Git, REST, Flask, Microservices

Cloud & Container: Docker, Podman, Proxmox, AWS, Azure, Familiar: Kubernetes

DevOps, SRE, System Administration: Ansible, Terraform, Packer, GitHub Actions, Linux

Data & Messaging: PostgreSQL, MSSQL, Redis/Valkey, Apache Solr, S3

Professional Experience

Independent Consultant, Ascias Technologies, LLC 2006 to Present

- Migrated data-enrichment pipelines to a workflow orchestration platform, containerizing services and building reproducible developer environments for distributed engineering teams.
- Implemented human-in-the-loop approval workflows and LLM integration features in a healthcare SaaS product, driving architecture decisions through multi-stage rollouts.
- Containerized and deployed an e-commerce platform, integrating payment processing, email marketing, and authentication systems.
- Built VM and container images with Packer and Docker for a Zeek-based network security monitoring appliance, targeting OVA, Raspberry Pi, and cloud deployments.
- Maintained SCADA and industrial network infrastructure for utility clients, managing Linux servers, VPN tunnels, security controls, and monitoring systems.
- Hardened systems in both public and private sectors through pentesting, code and binary audits, and border-defense tuning, raising clients' security posture.
- Automated infrastructure and data pipelines in Ruby, Go, and Python for research teams, cutting manual processing time.

Software Engineer, Open Architects - May 2024 to June 2025

- Prototyped an asynchronous file-upload system that allowed users of a student data platform to attach rich information to their records.
- Built a CI/CD pipeline with automated tests and container builds to increase deployment reliability.
- Maintained and monitored Linux servers and Docker containers, sustaining high availability.
- Deployed Apache Solr and built custom APIs and data update hooks with Flask and SQLAlchemy to enable fast, searchable records.
- Enforced security checks with GitHub Actions and tracked SOC 2 controls in Vanta, strengthening compliance.

Infrastructure Security DevOps Engineer, Doximity - April 2023 to May 2024

- Responded to security incidents, coordinating containment and remediation.
- Monitored AWS infrastructure and application code, swiftly flagging security anomalies.
- Provisioned security tooling with Terraform and Ansible, expanding protective controls in production environments.
- Developed integrations that routed event data between Security Information and Event Management (SIEM) platforms, unifying threat visibility.
- Wrote custom intrusion-detection scripts, extending detection coverage beyond off-the-shelf rules.

DevOps and MLOps Practice Lead, Lofty - June 2021 to April 2023

- Performed deployments of Kubernetes clusters on EKS with Rancher for web apps and MLFlow pipelines, helping clients get to market quickly.
- Prototyped machine learning utilities and traditional applications for clients in engineering and agricultural industries.
- Organized the company's internal security team to help clients maintain a strong security posture.
- Led a team of 15 engineers across a portfolio of client projects.

Network Security Software Engineer, Corelight - March 2019 to June 2021

- Maintained open source Zeek protocol analyzers that shipped on commercial Network Security Monitoring (NSM) appliances.
- Acted as a security contact between Corelight and the Zeek community, coordinating timely vulnerability disclosures.
- Crafted Python tooling that simplified development workflows.

Senior Software Engineer, Malwarebytes - January 2015 to March 2019

- Collaborated with a cross-functional team to maintain the platform that powers Malwarebytes endpoint products.
- Expanded a web-based malware-research automation tool, accelerating sample analysis for threat researchers.
- Created a debug-log aggregation API with a rule engine that surfaces real-time alerts to customer-support teams.
- Developed Clojure microservices on AWS Lambda to process anti-malware logs and apply custom detection rules.
- Delivered Ruby services that automated infrastructure and data collection.

Earlier Experience Highlights - 2003 to 2015

- Grandslam Performance Associates, 2015: Migrated serve2perform.com from Rackspace to Heroku with near-zero downtime, performed a major Rails upgrade, and introduced monitoring and analytics using Ruby, Rails, PostgreSQL/PostGIS.
- Acumen Brands - 2012 to 2015: Led Core and Account-Management dev teams, delivered a delayed-shipment prediction service, optimized large-scale data imports; tech stack included Ruby on Rails, Redis, PostgreSQL, AWS, and Clojure.
- SocialVolt - 2011 to 2012: Shipped flagship social-media engagement features and an admin portal, integrated Facebook/Twitter via Resque and Redis, and produced reporting libraries with Ruby.
- City of Siloam Springs - 2003 to 2011: Administered 50+ mixed-OS servers and a 16-site Cisco/Juniper network, deployed Novell OES2 and GroupWise, automated backups and inventory with Perl/Ruby/Python.

Education

- eLearn Security eCPPT Training, 2020
- University of Arkansas - 2003 to 2008: Mathematics and Computer Science
- Northwest Arkansas Community College - 2002 to 2004: Network Administration

Additional Information

- Publications: Co-Author, “Deja-Vu: A Glimpse on Radioactive Soft-Error Consequences on Classical and Quantum Computations,” arXiv 2105.05103, 2021
- Open Source Contributions: Ronin security toolkit, LinkedIn Ruby Gem, Sinatra Authentication Ruby Gem, lairab pump.io Ruby client library, wyatt and wyatt_netsuite ERP integrations, casual_jacket ERP import library
- Community Involvement: Organizer of various local user groups, server hosting for community projects, ACM Professional Member, Admin - Free Software Foundation Directory (2014 - 2020), OpenSUSE Project and OpenSUSE GNOME Team Member (2007-2011)
- Spoken Languages: English (native), Brazilian Portuguese (conversational)