

Christopher M. Hobbs, Backend Software and DevOps Engineer

479-215-6016 | cmhobbs@acm.org | www.linkedin.com/in/cmhobbs | hobbsc.sdf-us.org

## Summary

Hands-on engineer with 18 years 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 Frameworks and Concepts:** Git, REST, Flask, Microservices

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

**DevOps & SRE:** Ansible, Terraform, OpenTofu, GitHub Actions, Linux

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

**Operating Systems & Networking:** Linux, pfSense, Netbird, Wireshark, OpenVPN

## Professional Experience

### Software Engineer, Open Architects - May 2024 to June 2025

- Delivered 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.
- Lead 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.

## **Independent Consultant, Part Time, Ascia Technologies, LLC 2006 to Present**

- 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.
- Delivered community web apps that streamlined event planning and sales workflows for nonprofits and small businesses.
- Administered Linux and FreeBSD servers, multi-site networks, and off-site backups, improving uptime and recovery readiness.

## **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**

- Spoken Languages: English (native), Brazilian Portuguese (conversational)
- 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)