Christopher M. Hobbs

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- Languages: English, Portuguese (BR, Conversational)

Summary

Versatile technology professional experienced in backend engineering, security, and infrastructure. Motivated by curiosity, continuous learning, and problem solving.

Technologies and Tools

- **Most Recent:** Python, Ruby, Flask, PostgreSQL, MSSQL, Git, Solr, Docker, Podman, Ansible, Terraform, OpenTofu, NGINX, AWS, Azure, Linux, Proxmox, pfSense, nmap, masscan, ronin, common LLMs
- **Earlier Experience:** Golang, Django, Rails, C++, Clojure, Perl, MLFlow, Kubeflow, Zeek, Wireshark, Kubernetes, Rancher, CircleCI, ELK stack, Sumo Logic, FreeBSD, Juniper, Cisco, KVM, Xen, AS/400

Work Experience

- Owner, Ascia Technologies LLC 2006-Present

    - **DevOps & Infrastructure:** Managed network and system administration for SCADA and industrial control systems in the public sector, supported physical and software defined networks, provided hosting services for professional and community organizations.
    - **Development:** Implemented custom software and automation solutions in multiple languages for clients across government, healthcare, nonprofit, and commercial sectors.
    - **Security:** Performed penetration testing, physical security auditing, code and binary analysis, border/network hardening, malware analysis, and reverse engineering for a wide client base.
    - **Training & Leadership:** Led Security and development training for technical and non-technical audiences, advised security and networking teams.

- Senior Engineer (Remote), Open Architects 2024-2025

    - **Development & Automation:** Contributed features to the company's student data management platform, built a custom async file upload system, implemented CI/CD with automated testing and container builds, and developed automations for syncing MSSQL data to Solr collections.
    - **Operations & Security:** Maintained and monitored cloud infrastructure, maintained Apache Solr instances, managed security automation with GitHub Actions, monitored SOC2 compliance with Vanta, and performed regular code review.

- DevOps Engineer - Infrastructure Security (Remote), Doximity 2023-2024

    - **Security & Automation:** Participated in security incident response for a large healthcare service product, monitored infrastructure/code for security issues, provisioned cloud security tooling with Terraform and Ansible, and developed custom integrations/intrusion detection scripts for SIEM platforms.

- Practice Lead & Interim Director of Engineering (Fayetteville, AR), Lofty 2021 -2023

    - **Architecture & Engineering:** Designed and implemented ML workflows and infrastructure, planned software and infrastructure for diverse client projects, and prototyped ML and traditional applications.

- **Operations & Security:** Led SRE, MLOps, and DevOps efforts, managed internal security team, reviewed and audited security for codebases, and supported engineers with software and infrastructure challenges.
    - **Leadership:** Managed a team of ~15 engineers, mentored apprentices and developers, provided code review, and assisted business development initiatives.
- Network Security Software Engineer (Remote), Corelight 2019-2021
    - **Development:** Built and maintained network monitoring packages and custom tooling for NSM appliances, including Wireshark plugin development.
    - **Security & Collaboration:** Served as security contact for Zeek's Private Distributors Group, participated on the internal security advisory board, bridged code between open source and internal teams, and performed security analysis of NSM appliance code.
- Senior Software Engineer (Remote), Malwarebytes 2015-2019
    - **Development:** Built and maintained an enterprise management platform, expanded a web-based malware research automation tool, and developed malware telemetry services and data collection APIs.
    - **Automation & Infrastructure:** Created a custom debug log aggregation API with a rule engine for alerts, built anti-malware log processing microservices and developed a platform for dynamic AWS service provisioning.

Earlier Experience (2003–2015)

- Grandslam Performance Associates (Managing Directory of Technology 2015), Acumen Brands (Senior Developer & Team Lead 2012-2015), SocialVolt (Ruby Developer 2011-2015), City of Siloam Springs (Infrastructure Administrator 2003-2011)
- Drove platform migrations, software development, security initiatives and medium to large scale network/server orchestration in a wide array of environments
- Held senior engineering and technical leadership roles across e-commerce, analytics, professional development, SaaS, and government/emergency IT.
- Led technical teams and mentorship programs

Education

- College: University of Arkansas 2003-2008 (Focus: Pure mathematics, Computer Science), Northwest Arkansas Community College 2002-2004 (Focus: Network Administration)
- Other: eLearn Security eCPPT Training 2020, Advanced Global CCNA Bootcamp 2003

Publications, Publications, and Affiliations

- Co-author, "Deja-Vu: A Glimpse on Radioactive Soft-Error Consequences on Classical and Quantum Computations" (https://arxiv.org/abs/2105.05103)
- Open source contributions: Ronin security toolkit, LinkedIn ruby gem, Sinatra Authentication ruby gem, rest_suite Netsuite framework, lariab pump.io client, wyatt/wyatt_netsuite ERP integrations, casual_jacket ERP import library
- Admin, Free Software Foundation Directory (2014-2020)
- Member, OpenSUSE Project and OpenSUSE GNOME Team 2007-2011
- Organizer for several community networks and user groups