Christian Martin

DevOps Engineer and Cyber Security Researcher

I am a DevOps Engineer and a Cyber Security Researcher with expertise in threat hunting, automation, and project management. I specialize in securely deploying, monitoring, and maintaining large-scale hybrid Infrastructures, including AWS, Azure, VMWare vSphere, and Kubernetes. My experience also includes network-based firewalls, site-to-site VPN deployment, application containerization, and cloud migration.

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📍 Citizenship: USA; Swiss Permit: B Non company Binding

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WORK EXPERIENCE

Consultant specializing in SharePoint, Office 365, WordPress, and Enterprise Storage Architecture.
Consultant

11/2022 - Present

Achievements/Tasks

- Relocated to Zurich, Switzerland, and attained proficiency at the B level in German language studies .
- Automated CTF infrastructure deployment at Flatiron School for up to 50 penetration testers using Terraform and Ansible, incorporating vulnerable Linux VMs and web servers on Kubernetes and vSphere.

DevOps Engineer and Project Manager
The Riverside Church Organization and Legal

11/2020 - 10/2022

Achievements/Tasks

- Managed Azure DevOps ecosystem, deploying SharePoint apps and workflows. Led automation of project documentation transfer from Azure DevOps to Microsoft 365 SharePoint.
- Successfully migrated customer-facing WordPress to AWS, transitioning from Apache to Nginx web server. Implemented Nginx reverse proxy with caching for efficient handling of high concurrent connections and optimized memory usage.
- Successfully migrated 300+ desktop clients for Riverside Church Organization to AWS Workspace during the pandemic peak as part of a VDI services initiative.
- Utilized Bash and Python with AWS Boto3 library to complement automation from AWS CloudFormation, Ansible, and Terraform. Tasks included encrypting EBS volumes, backing up AMIs, and scheduling Lambda functions for routine AWS operations.

VMWARE Infrastructure and Systems Security Engineer
The Riverside Church Organization

11/2018 - 10/2020   *New York City*

Achievements/Tasks

- Optimized SharePoint 2016 deployment on vSphere with custom ESXi images using PowerShellCLI.
- Deployed VMWARE, Linux, and Windows Server infrastructures with Terraform, Ansible, Bash, and Python. Successfully managed web operations with LEMP and LAMP stack, consistently exceeding SLO.

TECHNICAL SKILLS

Programming Languages & Frameworks
Moderate proficiency in Java and Spring, PHP, Python, and Bash. Basic familiarity with C#, .NET, JavaScript, and PowerShell.

DevOps and SRE
Linux, Kubernetes, Docker, WordPress, Ansible, Terraform, Vagrant, Packer, Git, Jenkins, Azure DevOps, LEMP/LAMP S, and GitHub. Monitoring and Logging tools: Prometheus and ElasticSearch, Logstash and kibana: AKA ELK stack)

Cloud and Databases
AWS, Azure, GCP, MySQL, PostgreSQL, MongoDB and Kafka.

Cybersecurity knowledge
Extensive knowledge of Kali Linux, WireShark, Burpsuit, Metasploit, Nmap, Nessus, Splunk, Redhat Insights, Linux IPC

Virtualization, Operating Systems and Storage Technologies
Extensive knowledge of VMWARE vSphere, RedHat Enterprise Linux, Windows Server, TrueNas and ZFS file System & Synology

Networking, Firewall and Global Service Directory and CDN
CloudFlare, AWS Route 53, TCP/IP, DNS, DHCP, NFS, iSCSI, Active Directory, Azure AD, LDAP, FortiGate NGFW, Pfsense

CERTIFICATES

Certified Information Systems Professional (CISSP)

Microsoft Azure Certified Solutions Architect Expert

AWS Certified Solutions Architect Professional

CompTIA Security+ and CompTIA CySA+

SANS Institute Sec505: Securing Windows and PowerShell Automation

AWS Certified DevOps Engineer Professional

AWS Certified SysOps Administrator Associate

CCNA and CCNP Enterprise

WORK EXPERIENCE

Participant: Data Engineering Research
Google: Google cloud's Learning workshop

01/2017 - 10/2017   *New York City*
Achievements/Tasks

- Chosen as 1 of 87 participants for a 24-week developmental program focused on technical skills, Certification preparation, advanced programming projects (Python and Java), and Google Cloud Platform exposure.
- Acquired a profound comprehension of Terraform, Docker, Kubernetes, and Google Cloud Kubernetes Engine, and demonstrated adeptness in utilizing GKE's single-zone, multi-zone, and regional clusters to deploy and evaluate multi-tier, cloud-native applications.

Infrastructure Analyst (CND)
iDefense Inc

04/2014 - 12/2016   *Chantilly, Virginia*
Achievements/Tasks

- Conducted Grey box and Black box penetration testing, evaluating the client's Azure cloud and hybrid security, with a focus on intrusion detection, prevention, packet capture, and quarantine; presented recommendations in a comprehensive report.
- leveraged Splunk to create viewable dashboards for log data, enabling tactical forensic analysis and proactive identification of adversarial activity through collected network data (Hunt Team).
- Enforce industry-standard security controls for regulatory compliance (PCI-DSS, SWIFT, NIST, ISO) and conduct security engineering and hardening on the latest operating systems.

Data Engineer
Gwynnie Bee

03/2013 - 02/2014   *New York City*
Achievements/Tasks

- Successfully implemented the Honeywell Voyager MS9540 USB barcode scanner system with an application module using javax.comm to read input from the specified serial port, writing barcode data to a database for processing over 6 million garments.
- Setup MySQL on RedHat Enterprise Linux, establishing a data synchronization process between NetSuite and MySQL, and storing the data in Hadoop for large-scale analytics.

Analyst, Derivatives Portfolio Valuation
Phoenix Financial

02/2012 - 02/2013   *New York City*
Achievements/Tasks

- Collected and Analyzed large amounts of market information, extracted its essence and incorporated finding into daily briefings for portfolio Managers.
- Managed 10+ large OTC derivative trading portfolios, including interest rates, credit, FX, commodities, and equity derivatives. Processed margin calls in Acadia system, monitored daily collateral movement, and identified risk drivers.

PERSONAL PROJECTS

Aerial Robotics (12/2020 - Present)

- Developing quadrotor flying robots using Matlab, Python, and the Faster R-CNN model for dynamic modeling, controller derivation, and 3D navigation synthesis. Prioritizing maneuverability in complex environments with sensor-based localization.
- Passionate about building liquid-cooled, high-performance hyper-converged infrastructure for hobbyists, machine learning enthusiasts, and data science projects.

CONFERENCES & COURSES

SANS Institute Cyber Threat Intelligence Summit (01/2023 - 05/2023)
https://1drv.ms/b/s!AvHvGcc8yJNoynspKsBXNttaUzLo?e=qNoibe

- Learned to gather, analyze, and distribute cyber threat intelligence to detect and lessen risks to the organization's information systems and assets with Splunk and SolarWinds.

Sans Institute Cloud Security Exchange (02/2023 - 04/2023)
https://1drv.ms/b/s!AvHvGcc8yJNoynwJs51i42KF05wu?e=YlpScu

SANS Institute Pen Test HackFest Summit & Training (11/2021 - 11/2021)
https://1drv.ms/b/s!AvHvGcc8yJNoynq6YYwQ_SKBmJA5?e=9gNTg7

- Participated in SANS Netwars Tournament of Champions, Hosted annually at SANS Cyber Defense Initiative in Washington D.C., the Netwars Tournament of Champions is an annual celebration of the top-scoring Ethical Hackers from around the globe.

SANS Institute Digital Forensics and Incident Response(DFIR) Summit & Training 2021 (06/2021 - 06/2021)
https://1drv.ms/b/s!AvHvGcc8yJNox2cYZRET1IuWXBpR

- Learned how to sniff network communication protocols to determine the content of network communication (including access credentials) using tools such as tcpdump and Wireshark.

SRE and DevOps Engineer with Google Cloud (10/2020 - Present)
https://coursera.org/share/89cc68442e7318cef7578012f19db38d

- Finished a 5-course Professional Certificate program on Google Cloud, emphasizing software delivery pipelines, service deployment, monitoring, incident management, and applying SRE principles.

Data Engineering, Big Data, and Machine Learning on GCP (07/2019 - 09/2019)
https://www.coursera.org/account/accomplishments/specialization/HWR93S2MUJLQ

- Five course accelerated specialization designed for professionals who are responsible for designing, building, analyzing and optimizing big data solutions.

EDUCATION

Grove School of Engineering
City College of New York(CUNY)
02/2011 - 07/2013

BSc in Computer Engineering
University of Cape Town (UCT)
2004 - 2007

LANGUAGES

English
Native or Bilingual Proficiency

German
Limited Working Proficiency

French
Native or Bilingual Proficiency

Portuguese
Professional Working Proficiency

INTERESTS

Geopolitics   Robotics   Machine Learning & AI

Video Games   Soccer   Hiking   Linguistics