Joshua A. Roche

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## **Objectives**

I am a focused and diligent professional with 20 years of active military experience seeking a position in the fields of telecommunications and information technology to utilize my knowledge and experience.

## **Education**

Bachelor of Science in Computer Science 2018 to 2021

University of Maryland, Global Campus Adelphi, MD

## **Professional Summary**

**Operations Engineer** AnyDesk Software, GmbH

Stuttgart, Baden-Wuerttemburg, DE May 2022 to Present

* Deployed, maintained, monitored, updated, and replaired over 600 cloud servers, bare metal, and virtual systems with over 20 different cloud hosting providers including AWS, Hetzner, OVH, DataPacket, Global Secure Layer, Limestone, and Maxihost
* - Installed, managed, monitored, and updated 8 PostgreSQL production database servers including replication and recovery
* - Created production and staging cloud containerized applications utilizing Kubernetes and Docker
* - Migrated a worldwide Icinga2 customized monitoring system to Prometheus, providing better insight into system dynamics and metrics
* - Installed, monitored, and maintained Apache Tomcat, Wildfly, Quarkus, and NGINX application and web servers as well as Quarkus and FastAPI into our production environment
* - Developed automation for operational tasks using Ansible, Python, and BASH Scripting
* - Built web applications used for Scam prevention and response and application delivery for internal testing

**Tier II AWS Systems Administrator** Superlative Technologies, Inc.

Vaihingen, Baden-Wuerttemburg, DE September 2021 to May 2022

* Utilized Amazon Web Services (AWS) to build virtual machines, add storage, configure network adapters, and view performance metrics in a virtualized environment
* Created PKI certificates and Java keystores for TLS connectivity to keep connections secure between system components and user endpoints
* Built a centralized authentication system using LDAP, NSS, and SSSD to ensure security and accountability for EC2 instances
* Automated the hardening of host systems for compliance with DISA STIG using SCAP tools and AWS System Manager components in order to meet Department of Defense Security Guidance
* Provided Tier II user support for DoD Global Video Services 2 (GVS2) platform resolving customer issues and maintaining system readiness
* Knowledge of AWS CloudWatch, RDS, EFS, EC2, VDS
* Managed RHEL hosts, Apache Tomcat application servers, NGINX web servers
* Amazon Web Services cloud infrastructure operation, maintenance, and troubleshooting
* On-Premises Classified infrastructure operation, maintenance, and troubleshooting
* Provide system updates, patching, demand maintenance, change request support, and automation for CI/CD of GVS2 Platform
* Created and updated operational, technical, user documentation

**SATCOM Operations NCO** (US Army) 44th Expeditionary Signal Battalion

Baumholder, Rheinland-Pfalz, DE February 2018 to September 2021

* Manage MILSATCOM and DISA network access for military tactical systems.
* SME for RF Transmissions Systems utilized in SHF (X, Ku, Ka band) and EHF frequencies
* Network Infrastructure Management and Troubleshooting
* Virtual Infrastructure (VMware vSphere 6.0) Administration and Troubleshooting
* Cisco Unified Communications Manager (v10.5) Administration and Troubleshooting

**Instructor/Writer for 25S Advanced Individual Training** (US Army) TRADOC, 15th Signal Brigade

Fort Gordon, GA January 2015 to February 2018

* Instructed over 230 Soldiers on MILSATCOM and Networking Systems providing knowledgeable communications technicians to the US Army
* Developed and updated the training content and curriculum of the MOS 25S Satellite Communications Operator/Maintainer course to stay up to date with current and emerging technology
* Configured and maintained an iDirect 12200 satellite modem subsystem used for instruction
* Trained fellow instructors on the operation and design of the iDirect 12200 satellite modem subsystem

## **Professional Certifications**

* CompTIA Security+ CE (30 August 2019)
* CompTIA Cloud+ (3 October 2020)
* AWS Certified Cloud Practitioner (21 November 2020)

**Skills Summary**

* PostgreSQL Database administration
* System/Application monitoring with Prometheus, Icinga2, Grafana
* Ansible automation for system administration
* Apache Tomcat 9, Wildfly, Quarkus Java Application deployment
* FastAPI Python application deployment
* Windows Server 2012/Red Hat Enterprise Linux (RHEL)/Debian Linux Administration
* VMware ESXi/vSphere/vCenter Hypervisor Operating Systems
* Dell PowerEdge R420/420xr Servers
* Military Satellite Communications (MILSATCOM) tactical and strategic terminals
* Configuration of Cisco Routers, Switches, Unified Communications Manager to include Cisco IOS 16, 4400 series Integrated Services Routers (ISR), and virtual Cloud Services Router (CSR) 1000v
* Knowledge of Defense Information Systems Administration (DISA) network architecture across Non-Secure Internet Protocol (NIPR), Secure Internet Protocol (SIPR), and Combined Enterprise Regional Information Exchange System (CENTRIXS) enclaves
* Management of DoD High Assurance Internet Protocol Encryptor (HAIPE) cryptographic systems: KG-250X, KG-175D, KIV-7M, SKL