

Jae Sung An

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PROFESSIONAL SUMMARY

Detail-oriented IT professional and U.S. Air Force veteran with hands-on experience in system administration, network infrastructure, and IT security compliance. Proven ability to design, deploy, and maintain production systems including VLAN-segmented networks, VPN tunnels, Linux servers, self-hosted Docker infrastructure, and IP surveillance systems across multiple physical sites. Currently pursuing a B.S. in Computer Science at NJIT. Seeking an entry-level IT infrastructure, systems administration, or network support role where I can apply practical hands-on experience in Linux administration, networking, and systems operations.

EDUCATION

B.S. in Computer Science — NJIT, Ying Wu College of Computing *Jan 2025 – Present (Expected May 2027)*

- Probability and Statistics | Linear Algebra | Programming Language Concepts
- Roadmap to Computing | Computing and Effective Communication

A.S. in Computer Science — Bergen Community College *Jan 2023 – Dec 2024*

- Data Structures & Algorithms | Object-Oriented Programming | Advanced Programming Concepts
- Computer Organization & Assembly Language | Intro to Linux | Discrete Math

PROFESSIONAL EXPERIENCE

IT Operations & Infrastructure Administrator

Speedalice Nails & The Jangwon

May 2023 – Present

Ridgefield, NJ / Palisades Park, NJ

- Design and manage enterprise network infrastructure across a residential site and two small business locations with 19 VLANs, inter-VLAN firewall policies, and site-to-site WireGuard VPN tunnels using the Ubiquiti UniFi stack
- Deploy and administer a 24/7 IP camera surveillance system with 7 IP cameras across three sites, centralized on a self-hosted Debian Linux server running Frigate NVR with VAAPI hardware-accelerated video decoding and go2rtc for low-latency live streaming
- Operate a fully containerized self-hosted infrastructure stack using Docker Compose and Dockge, including Nextcloud, Vaultwarden, Pi-hole, Caddy reverse proxy, Uptime Kuma, Grafana, Prometheus, and cAdvisor — all publicly accessible via custom subdomains with automatic TLS through Cloudflare DNS
- Build and maintain a self-hosted personal portfolio and homelab documentation site, demonstrating end-to-end web hosting, DNS management, and reverse proxy configuration
- Provision and maintain a custom-built ITX home server (AMD Ryzen 7 5700G, 64 GB DDR4, tiered NVMe + HDD storage) purpose-built for 24/7 low-power operation
- Maintain PCI DSS-informed network segmentation by isolating point-of-sale systems on dedicated VLANs, restricting access to cardholder data environments
- Perform ongoing Linux system administration including package management, service monitoring, log analysis, remote access configuration, and Docker container lifecycle management
- Deploy and manage network-wide DNS filtering and ad blocking using Pi-hole, improving network security and reducing exposure to malicious traffic
- Provision and configure end-user workstations including a Raspberry Pi 5 with Linux desktop environment (Cinnamon) for customer-facing use

Vehicle Maintenance Supervisor

United States Air Force — Spangdahlem Air Base

Dec 2019 – Aug 2022

Germany

- Supervised maintenance operations for 500+ general purpose vehicles, managing scheduling, parts procurement, and quality control

- Led, mentored, and evaluated 17 junior airmen — responsible for their training, performance reviews, and day-to-day task assignment
- Maintained unit readiness and accountability in a high-tempo operational environment with zero tolerance for equipment failure

Materiel Control Journeyman

United States Air Force — Osan Air Base

Nov 2018 – Dec 2019

Songtan, South Korea

- Created and maintained MS Access database for tracking \$1.2M in maintenance materiel and assets
- Achieved 98% mission capable rating of fleet vehicles, enabling timely maintenance of 900+ vehicles

CERTIFICATIONS

- CompTIA A+ | In Progress
- CompTIA Network+ | Planned 2026
- CompTIA Security+ | Planned 2026
- IBM Z Xplore – Advanced | IBM Systems | Oct 2023
- IBM Z Xplore – Concepts | IBM Systems | Oct 2023

TECHNICAL SKILLS

Languages: C#, C++, Java, Python, MySQL, COBOL

Tools & Platforms: Linux (Debian, Fedora), Windows, Docker, Docker Compose, Dockge, Caddy, Nextcloud, Vaultwarden, Frigate NVR, go2rtc, Pi-hole, Grafana, Prometheus, cAdvisor, Uptime Kuma, WireGuard VPN, Ubiquiti UniFi, Cloudflare, Raspberry Pi, Bash, Git, MobaXterm, Microsoft Excel, Microsoft Access

Networking: VLAN configuration, DNS management, TCP/IP, VPN (site-to-site & remote access), zone-based firewall, network segmentation, IP surveillance systems, Cloudflare DNS & email routing

Core Competencies: System Administration, IT Security, Container Orchestration, Monitoring & Observability, Server Provisioning, Endpoint Configuration, Backup & Recovery, Troubleshooting, Technical Support

EXTRACURRICULAR & VOLUNTEER

- Member, Institute of Electrical and Electronics Engineers (IEEE) — NJIT | Jan 2025 – Present
- Volunteer Tutor — NJIT, Ying Wu College of Computing | Jan 2025 – Present | Assisted 20+ students in data structures, algorithms, and object-oriented programming
- Liturgical Leader — The Roman Catholic Church of St. Michael | Jan 2025 – Present
- Eucharistic Minister — The Roman Catholic Church of St. Michael | Jun 2024 – Present