

Alex Chau Nguyen

Knoxville, TN 37918 – USA

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Highly motivated and detail-oriented IT professional with an active security clearance and a strong foundation in systems administration, networking, and cybersecurity. Proficient in multiple programming languages and experienced in developing automation tools, scripts, and applications that improve efficiency and strengthen security. Combines hands-on IT expertise with software development skills to deliver scalable, reliable, and secure infrastructure solutions.

Technical Skills

Programming: C++, C, C#, Python, JavaScript, TypeScript, SQL, HTML, CSS, RISC-V

Systems: Linux/Unix, Windows Server, Active Directory, RHDS10/IDM, PKI (Venafi), SCADA

Networking: Routers, Switches, Firewalls, TCP/IP, VPNs, DNS, DHCP

Automation & Tools: PowerShell, Bash, Ansible, Terraform, Git/GitHub, RESTful APIs, Postman

Frameworks: React, Node.js, .NET, Bootstrap, jQuery

Experience

Tennessee Valley Authority

Knoxville, TN

System Administrator

Jan 2025–Present

- Administered endpoint devices and SCADA power grid databases, leveraging SQL for efficient queries and data integrity.
- Built operator dashboards in Display Builder to improve system visualization and situational awareness.
- Automated workflows with scripts and documentation to support compliance, security, and long-term maintainability.
- Collaborated with developers and engineers to ensure secure, documented, and compliant deployments across environments.

Tennessee Valley Authority

Knoxville, TN

Platform Engineer

2023–2025

- Automated cross-server configuration and infrastructure provisioning using Ansible and Terraform.
- Developed PowerShell tools for Active Directory administration, access auditing, and compliance monitoring.
- Integrated Venafi APIs for automated certificate enrollment, renewal, and revocation across IIS, Apache, Tomcat, and WebSphere, strengthening PKI security posture.
- Administered RHDS10 and IDM, configuring sudo and HBAC policies to enforce least-privilege and access control standards.

U.S. Army

Information Technology Specialist (T3 Security Clearance—Active)

Jan 2022–Jan 2025

- Administered and maintained servers, networks, and computing systems (routers, switches, endpoints) to ensure reliable operations.
- Provided technical support across hardware, software, and networks while training personnel on system use and IT best practices to enhance operational readiness.

U.S. Army

Horizontal Construction Engineer

Dec 2018–Dec 2022

Planned and executed horizontal construction projects in support of military operations, including manpower allocation, equipment planning, and coordination of resources.

Certifications

[AWS Certified Cloud Practitioner](#)

| [AWS Knowledge: Architecting](#)

| [AWS Cloud Quest: Cloud Practitioner](#)

Education

The University of Tennessee, Knoxville

Bachelor of Science in Computer Science

GPA: 3.97/4.0

Awards & Achievements

Military: NATO Medal; Army Achievement Medals (x2); Afghanistan Campaign Medal (w/ star); Armed Forces Reserve Medal (M device); National Defense Service Medal; Global War on Terrorism Service Medal; Army Reserve Components Achievement Medal; Good Conduct Medal; Service Ribbon; Army Service Ribbon; Driver and Mechanic Badge