

ALEX CHAU NGUYEN

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🔗 GitHub: [bolophil](#) 📁 Portfolio 🌐 LinkedIn: [Alex Nguyen](#)

EDUCATION

The University of Tennessee, Knoxville

Bachelor of Science & Computer Science

Knoxville, Tennessee

Graduation: DEC 2024

Cumulative GPA: 3.99/4.00

CERTIFICATIONS: [AWS Certified Cloud Practitioner](#), [AWS Knowledge: Architecting](#), [AWS Cloud Quest: Cloud Practitioner](#)

EXPERIENCE

Tennessee Valley Authority – Internship

2023-Present

- Utilizes Ansible and Terraform for efficient cross-server automation and configuration management.
- Develops tool for automation for routine administrative and monitoring tasks in active directory using PowerShell.
- Managed PKI certificate lifecycle with Venafi, from issuance to revocation, ensuring ongoing monitoring and integrating with various technologies for cohesive security management.
- Managed sudo and HBAC permissions for RHDS10 and IDM, while actively monitoring and maintaining the RHDS10 and IDM master servers to ensure optimal performance and security.

US Army Reserve – Information Technology Specialist (T3 security clearance-active)

2022-Present

- Performs system administration and maintains computers and servers within the computing environment and network environment.
- Performs network administration; installs, configures, and maintains network computing equipment within the network.

SKILLS

- C++, C, C#, SQL, JavaScript, HTML, CSS, RISCv, TypeScript, Python.
- React, Node.js, .NET, Bootstrap, jQuery.
- Linux/Unix, Git, GitHub, PowerShell, Ansible, Terraform.

RELEVANT PROJECTS

Convert pixel image to ASCII characters Webapp: *HTML, CSS, and JavaScript*. [Live](#)

- Taking an image from either URL or upload from file and convert each pixel to relevant character in ASCII.
- Redraw the image on canvas with character pixels with option to adjust density and download.

Fake Store Website: *React, Redux and Bootstrap*. [Live](#)

- Build a fake store which shows products to buy with functionality such as login, signup, checkout, remove and add items from cart.

CRUD Application Webapp: *C#, ASP.NET and Microsoft SQL Server*. [View](#)

- Display a table that contains clients' information on a webpage.
- Using Microsoft SQL Server for database allowing to update existed client's information, create new clients and delete a client.

ScheduleU: *Python, HTML*. [View](#)

- Optimized student scheduling with a tool that recommends course placements based on major prerequisites and integrates data from popular review websites.
- Developed a user-friendly university course and professor selection tool using Python, PyQt, Pickle, and BeautifulSoup.

MULTITHREADING CHAT SERVER: *C* [View](#)

- C-based console application that functions as a server within a connected network.
- It is designed to enable clients to connect to various rooms within the server and engage in communication with other occupants.

Computer Organization: *C++, RISCv*. [View](#)

- Developed virtual machine and running decoded instructions using RISCv.
- Bitwise operation, IEEE-754 floating point standard.

AWARDS AND ACHIEVEMENT

- Education: Dean's List Summa Cum Laude.
- Military: NATO medal | Army achievement medals(x2) | Afghanistan campaign medal w/ campaign star | Armed forces reserve medal w/ 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 with S operator.