Vo Chi Cong (Heaven Vo)

Cyber Security Engineer

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SUMMARY

I am an Entry-level Security Engineer with foundational knowledge in authentication, authorization, and core networking concepts such as TCP/IP, DNS, VPN, and firewall configuration. I am skilled in log analysis, scripting, SSH hardening, port scanning, and querying databases using SQL.

TECHNICAL SKILLS

- **Scripting & Programming:**
  - Python
  - Bash
  - SQL
- **Cloud & SIEM:**
  - AWS
- **Operating Systems:**
  - Linux (Ubuntu)
  - Window Server
- **Core Concepts:**
  - Authentication & Authorization
  - CIA Triad
  - Encryption & Hashing
- **Version Control:**
  - GitHub
  - Jira
- **DevOps**
  - Docker
  - Kubernetes
  - Jenkins
- **Foreign Languages:**
  - English (Intermediate)

EDUCATION

FPT University Ho Chi Minh (Vietnam) From 09/2018 to 12/2023

- Major: Information System
- Degree grade: Good
- Graduation Thesis Topic: The system provides ordering and delivery services within the apartment complex using delivery algorithms

KDU Penang University College (MY) From 07/2019 to 10/2019

- Studying English
- Degree grade: Good
- International exchange students

CERTIFICATION

- CertNexus Certified Ethical Emerging Technologist
- Web Design for Everybody: Basics of Web Development & Coding Specialization
- Modern Application Development with Java on AWS

PROFESSIONAL EXPERIENCE

Personal Project 05/2025 – now
Position: Developer
Project: User Login System with Role-based Access, Password Security, and Login Monitoring

- **Project Description**: A user authentication system integrating multiple cybersecurity practices including secure password management, login auditing, role-based access control, brute-force mitigation, and behavioral anomaly detection.
- **Technologies used:**
  - Language: Python
  - Libraries: bcrypt, getpass, json, datetime, socket, os, platform
- **Security Concepts:** Password hashing, password policy enforcement (length, complexity, reuse prevention), role-based authorization, temporary lockout, login anomaly detection
- **Responsibilities:**
  - Designed the overall project structure and modularized functional components
  - Analyzed password security criteria based on NIST and OWASP guidelines to define evaluation standards
  - Estimated password complexity by calculating basic entropy based on length and character set variety
  - Implemented bcrypt-based password hashing and secure login verification logic
  - Developed password strength validation using regex and blacklist
  - Added user account policies including expiration, forced reset, and history tracking
  - Implemented login attempt logging with device awareness and user behavior alerts
  - Designed lockout mechanism with auto-unlock to prevent brute-force attacks
  - Wrote device tracking module to detect rapid access from multiple machines
  - Created setup automation for first-time environment readiness
  - Ensured secure coding practices (input masking, JSON validation, role segregation)
  - Documented technical usage, limitations, and examples in a README file
- **GitHub:** heaven-vo/Authen-Author

Personal Project 04/2025 – 05/2025
Position: Developer
Project: Simple Port Scanner

- **Project Description**: A lightweight command-line TCP port scanner that scans a specified range of ports on a given host and identifies which ports are open. The tool uses multi-threading to improve performance and supports user-defined port ranges.
- **Technologies used:**
  - Language: Python
  - Libraries: socket, threading, argparse
- **Concepts Applied:** network sockets, TCP handshake, basic threading for parallel execution, command-line parsing with argparse
- **Responsibilities**
  - Researched TCP handshake principles to understand how to detect open ports
  - Designed and implemented socket-based TCP scanner to identify open ports on remote systems
  - Integrated multi-threading to accelerate the scan across port range
  - Built flexible CLI argument parser supporting custom IP/domain input and port range
  - Documented usage, arguments, and safe testing methods in a structured README
- **GitHub:** heaven-vo/Port-Scanner

FPT University Ho Chi Minh | Reso Vietnam 08/2022 – 06/2023
Position: Full Stack Developer
Project: CongDongChungCu (**Capstone Project** – 4 members)

- **Project Description**: The system provides ordering and delivery services within the apartment complex, including a system homepage, a mobile application for delivery people, an application for users, and an application for stores.
- **Technologies used:**
    - Front-end: HTML5, CSS3, ReactJS, Flutter, Firebase
    - Back-end: RESTful APIs, Web API, MS SQL Server, Entity Framework, NodeJS
- **Responsibilities:**
    - Receive project resources, communicate with customers and stakeholders to clarify project requirements.
    - Team leader, develops a detailed plan for the project, including schedule, resources and activities needed to complete the project. Division of human resources ensures compatibility with the abilities of team members. Monitor work progress and resolve problems that arise during project implementation.
    - Design UX/UI and implement the solution (both back-end and front-end) based on the requirements of stakeholders.
    - Design database schema for the system and implement front-end services.
    - Implement additional functionalities for the delivery algorithm.
    - Implementing third-party services such as notification messaging, payment, and image storage.
    - Set up CI/CD for backend and front end (deploy)
    - Manage project resources, prepare documents, test software, and present.
- **GitHub:** DeliveryVinhome/src at master · heaven-vo/DeliveryVinhome