HO NGOC DONG SINH

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SUMMARY

Passionate and driven Software Engineer with ~3 years of experience, blending a strong foundation in computer networking with hands-on expertise in software development. With a background in network engineering, I bring deep knowledge of networking, operating systems, and system administration to the table. I thrive in tackling complex challenges, designing scalable backend systems, and contributing to high-performance applications. Committed to continuous learning and innovation, I am eager to leverage my skills to build impactful and efficient software solutions.

EDUCATION

University Of Information Technology - VNUHCM   Thu Duc, Ho Chi Minh City, VietNam
Network and Data Communication. GPA: 3.14   *09/2018 - 09/2022*

TECHNICAL SKILLS

Programming Languages: C#, Python, JavaScript
Libraries and Frameworks: Django, ExpressJs, WPF, Window Filtering Platform
Tools: Jenkins, Git, Docker & Kubernetes
Database: PostgreSQL, MongoDB, Redis
Other skills: TCP/IP, Monitoring, OS, VPN, Protobuf

WORK EXPERIENCE

TMA Solution - Menlo Security   Ho Chi Minh City, Viet Nam
Software Engineer   *05/2022 - Now*

- Join in Menlo Private Access project which enables secure access to internal systems (IaaS/PaaS/on-premises) from outside environments, such as telecommuting, and is immune to attacks that exploit VPN vulnerabilities. Access to applications is only allowed to trusted users, so even if an application has already been compromised internally by Remote Browser Isolation access, it can still be used safely.
- Responsibilities: Build an application which managed endpoint application on Windows platform
  * Working with international team to clarify requirement and design client application architecture
  * Implement application (include application and windows service, kernel driver), test cases and related tools.
  * Build an API server to mock the configuration that returns pre-integrated support
  * Help team members develop applications on other platforms.
- Technologies: C#, WPF, Windows Filtering Platform, Windows Driver, Python, Go, Protobuf

DEK Technologies   Ho Chi Minh city, Viet Nam
DevOps Intern   *10/2021 - 01/2022*

- Build a CI/CD pipeline for a VoIP project that runs on multiple platforms (Android/Windows). Also, design test cases to test applications on the Android platform
- Helps improve the team's application development process, while ensuring the application operates stably before deployment
- Technologies: Jenkins, Docker, Gradle

PERSONAL PROJECTS

- **Bike Rental System** | *MERN Stack, Python, React Native, Kubernetes, Docker, Prometheus-Grafana*

  As a computer networks major, I chose to make my graduation project centered around creating a local K8S cluster that provides API and Web Socket services to bike stations built on embedded computers. Users can easily rent bicycles using their phone app at these stations. Additionally, I implemented high availability and fault-tolerant computing clusters to effectively monitor station health and performance, as well as to store system data.
  System setup Backend Client app Edge Service

- **Book Store** | *Python, Django, PostgreSql*

  Web API using Django framework and Django Rest Framework toolkit. It allows users to manage a virtual bookstore with features like CRUD operations, pagination, filtering, and sorting and search options. I built the API to be user-friendly and secure, with comprehensive documentation and robust error handling. This project showcases my expertise in web development frameworks and my ability to build efficient and secure APIs

- **Homelab** | *Cloudflare Tunnel, Docker, Go Fiber*

    Self hosting website on Raspberry Pi Server at home

- **CryptoTrack Realtime** | *Python, Django, Redis, PostgreSql, Docker*

    API's main feature is monitoring cryptocurrency prices in real-time. It scrapes data from the internet, clean, cache, and provides real-time cryptocurrency prices via sockets. [GitHub](#)

- **Data analytics platform** | *C#, WPF, NodeJS*

    Build a Windows application using C# and WPF to scrape and download TikTok videos without watermarks. Conducted research to bypass TikTok API restrictions, utilizing NodeJS for device emulation. Implemented features like video management, parallel downloads, and a user-friendly UI. Deployed the solution on AWS and packaged it with Wix Toolset

- **Blog Engine** | *C#, React, PostgreSql*

    This project was undertaken to learn about API development using .NET and EF Core, while also strengthening my knowledge of React. It focuses on creating a blog engine for personal use, allowing users to showcase themselves and write blogs to record and share their knowledge. The project provides a practical application of .NET technologies and React, offering a platform for both portfolio presentation and knowledge sharing. [GitHub](#)

    And all my other projects you can check out on Github

CERTIFICATIONS

TOIEC LISTENING & READING with score 720