

NGUYEN VAN THUAN

Full-Stack Software Engineer

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SUMMARY

Full-Stack Software Engineer with 5+ years building enterprise-grade security and data platforms. Specialized in designing scalable backend systems, implementing authentication & authorization, and developing real-time logging infrastructure processing millions of events daily. Proven track record delivering production systems for enterprise customers in both cloud-based and on-premise architectures.

EDUCATION

Bachelor's degree in information science and engineering | 09/2020 | HCMC University of Information Technology

SKILLS

- **Frontend:** HTML5, CSS/SCSS, JavaScript/TypeScript, Angular 8+, Vue 3
- **Backend:** NodeJs (Express), Python (Tornado), REST APIs
- **Databases:** PostgreSQL, MySQL, Redis, Apache Druid
- **Cloud & DevOps:** AWS, GCP, Linux (Ubuntu), CI/CD, Terraform/Terragrunt, Docker, Git
- **Security:** OAuth 2.0, RBAC, authentication & authorization

EXPERIENCE

Ribbon | Frontend developer | 10/2020 - 05/2022

- Built reusable UI component libraries used across 7+ internal projects, reducing development time by 35%.
- Migrated legacy Java-based UI to Angular, improving maintainability and performance.
- Identified and fixed a critical bug in an open-source UI component library, contributing the solution back to the community.
- Implemented unit and end-to-end tests to improve stability and reduce regressions.
- Collaborated with the agile team and participated in code reviews.

Project: The common components library

Description: The library written with the Angular framework, containing essential common UI components that all the UI projects use regularly.

Project: The Identity hub services manager

Description: Designed as a tenant-based application to help tenant administrators manage and host identity assurance services.

Menlo Security | Full-stack developer | 05/2022 - Present

- Designed and implemented backend REST APIs with strong authentication and authorization enforcement.
- Built and maintained real-time logging and reporting platform processing 70M+ events hourly, serving 1,000+ global enterprises and governments (8M+ users) with 99.9% uptime.
- Developed policy management services to enforce web access controls.
- Improved system reliability through testing, diagnostics, and infrastructure normalization.
- Delivered frontend features to expose backend capabilities and analytics to customers.
- Collaborated with cross-functional scrum teams through code reviews and technical documentation.

Project: The Policy and Reporting (PnR) - Policy

Description: Designed and maintained a Node.js backend service providing policy configuration APIs for tenant administrators, enabling fine-grained allow/block controls based on categories, threats, resource types, bandwidth, email attachment, and exceptions.

Project: The Policy and Reporting (PnR) - Reporting

Description: Built as a Tornado-based backend service providing named queries and reports about the user's activity logs from Druid server. The locale authentication endpoint is also hosted here, providing a fallback authentication scheme for authenticating the user's login.

Project: Menlo Query Language - MQL

Description: A Node.js server introducing MQL - a query language reserved for Menlo that provides a powerful, easy-to-write, and human-readable syntax, turn it to native Druid queries.

Project: Analytics frontend and analytics backend - Insights

Description: Designed as an admin portal for querying and analyzing users' logs showing in modern charts, and log viewers. It allows the admin to explore and analyze logs using the MQL syntax, create/manage the most frequent queries/reports, and create scheduled reports.

Project: Menlo Druid

Description: Based on the Apache Foundation Druid, Kafka, and Fluentd, it provides a central real-time streaming database for data ingestion and queries.

XDAP Hub - Management System | Full-stack developer (Part-time) | 09/2025 - Present

- Designed and built a fullstack management system for a parish youth organization.
- Implemented RBAC with atomic permissions and composable roles enforced at the API level.
- Developed an admin portal with permission-based UI rendering and route guards.
- Deployed frontend and backend services to cloud providers for rapid delivery.

Project: XDAP admin server

Description: Built a Node.js backend service serving APIs for admin to manage entries in the organization like persons, committees, assignments, activities, and auth. Enforced role-based access control on every authorized resources request. Stored session and short-lived data in memory to keep the service stateless and improve performance.

Project: XDAP admin portal

Description: Designed as an SPA application serving users to view and manage resources based on their roles and permissions. The application use Vue3 and Vite to simplify the development process and improve productivity and provide good user experience with beautiful and reactive components beside forcing resources visibility by user permissions.

CERTIFICATIONS

- **TOEIC:** 720/990 (2019) - Speaking & Writing: 215/400 (2021)