



Do Duy Thanh

Backend Software Engineer

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Location: Vietnam | Languages: English (Proficient), Vietnamese (Native)

SKILL AND EXPERTISE SUMMARY

IT Domain Knowledge: AI Safety Platform, Booking System, Mobile communication System, Security Platform.

Software & Tools:

- Programming Languages: Typescript, Javascript, Python.
- Frameworks/Environment: Node.js, ExpressJS, NestJS.
- Database: MySQL, MongoDB, Redis, Postgres.
- Cloud Service: AWS.
- Communication technologies: Restful API, Grpc, MQTT, RabbitMQ, Kafka.
- Containerization and Orchestration: Docker
- Version Control and Collaboration: Git, Bitbucket, JIRA.
- Testing Frameworks: Jest, Jasmine.
- Architectural Patterns: Microservices, Monolith.

Languages: TOEIC L&R: 875/990. Good command of spoken and written English.

EMPLOYMENT HISTORY AND PROJECTS INVOLVED

TMA Technology Group, Vietnam
BACK END SOFTWARE ENGINEER

Jan 2022 – Aug 2024

Project Overview: AI Technologies - Safety Platform Integration with AI/ML April 2023 – Aug 2024

- Dedicated to Australia Clients as a Backend Server developer, work closely with project stakeholders and relative team to involving in building an Android application that integrates with AI Technologies and Machine Learning, covering the entire process from requirements to go-live.
- The project scope involves integrating tools like AI Technologies into workflows to classify user intent, fine-tune documents, and generate responses from ChatGPT, activate emergency services. It also includes incorporating emergency services and internal notifications.

Key responsibilities:

- Architected and optimized database structures for robust, high-performance back-end servers, ensuring scalability and maintainability.
- Played a pivotal role in architectural decision-making, contributing to process improvements and long-term technical strategy for backend systems.
- Applied Test-Driven Development (TDD) practices, writing comprehensive unit and integration tests to guarantee backend reliability and minimize production issues.
- Directed advanced SQL data management and storage strategies, leveraging deep expertise to design and optimize complex database systems. Integrated Redis caching to drastically enhance performance, reduce query latency, and ensure high availability for large-scale, data-intensive applications.
- Continuously analyzed system performance metrics, proactively identifying and diagnosing performance bottlenecks. Led the implementation of targeted optimizations, resulting in significant improvements in efficiency, scalability, and overall system stability.
- Engineered and optimized worker processes to efficiently handle background tasks, ensuring enhanced system performance, reliability, and scalability. Implemented best practices to streamline task execution, minimizing downtime and resource consumption.

Client	Australia
Project size	30 members using Scrum/Agile Methodology
Role Taken	Backend developer
Technology Stack	Nodejs, ExpressJs, NestJs, MySQL, Redis, Microservices, AI/ML, ChatGPT, AWS, event-driven Kafka, Prometheus, Grafana, Figma, JIRA, Confluence, Postman, gRPC, Restful API

Project Overview: Isolation platform

Jun 2022 – April 2023

- This project aims to develop a highly secure, isolated platform designed to rigorously enforce permissions and policies across various services.
- The platform will ensure that all access points adhere to stringent security protocols, safeguarding user data and system integrity.
- By validating permissions in real-time and continually monitoring policy compliance, the system will provide a robust framework for protecting sensitive information, preventing unauthorized access, and maintaining overall security.

Key responsibilities:

- Use containerization or virtualization to further isolate services, reducing the attack surface and improving system security.
- Troubleshoot and resolved customer-reported bugs by replicating issues in AWS instances, enabling accurate diagnosis and effective problem resolution.
- Actively collaborated with front-end, DevOps, and QA teams to ensure seamless integration across the entire development lifecycle. Facilitated communication to align technical and business goals, driving more cohesive and efficient project outcomes.
- Architected and developed a secure, isolated platform to enforce permissions and policies across various services, ensuring compliance with stringent security protocols.
- Designed and implemented real-time permission validation mechanisms to dynamically control access, preventing unauthorized interactions with sensitive resources.
- Conducted performance and security testing, proactively identifying bottlenecks and vulnerabilities to enhance platform efficiency and security.

Client United States

Role Taken Backend developer

Technology Stack Nodejs, ExpressJs, MySQL, Postgres, Redis, Microservices, AWS, Prometheus, Grafana, Figma, JIRA, Confluence, Postman.

Project Overview: Internship Booking Interview System

Jan 2022 – Jun 2022

- HR personnel upload candidate resumes in PDF format, which are automatically scanned and stored in a structured database for easy retrieval.
- Managers can apply advanced skill-based filters to efficiently search and shortlist candidates that match specific criteria.
- The system facilitates seamless interview scheduling, allowing managers to book interviews directly through the platform.
- Managers receive automated weekly email updates with a curated list of candidates based on their subscribed skill preferences, ensuring they remain informed of top talent.

Key responsibilities:

- Developed the automated resume scanning and storage system, enabling HR personnel to upload PDF resumes that are systematically parsed and saved in a structured database for efficient retrieval.
- Designed and implemented advanced skill-based filtering algorithms, allowing managers to search and shortlist candidates based on specific skill sets, streamlining the hiring process.
- Built the interview scheduling module, ensuring managers can seamlessly book interviews with shortlisted candidates through the platform.
- Collaborated with cross-functional teams to ensure integration between the resume scanning, filtering, and interview scheduling functionalities.
- Optimized database queries to handle large volumes of candidate data while maintaining high performance and reliability.
- Developed and implemented an automated email notification system, providing managers with tailored candidate lists based on their subscribed skill preferences, ensuring they stay updated on relevant talent.

Client Internal HR department

Role Taken Backend developer

Technology Stack Nodejs, ExpressJs, MongoDB, Redis, On-Premise, Trello, Github, Git.

CERTIFICATIONS

TOEIC IIG

March 24, 2021

Star Performer at TMA SOLUTIONS

Oct 20, 2023

EDUCATION

Ho Chi Minh University Of Technology

Bachelor's degree of Mechatronics

GPA: 3.0/4.0

2015 - 2019