

# TRAN QUAN

## Fullstack Developer

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### SUMMARY

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2+ years of backend experience building products running live in production, from ride-hailing and eSIM/IoT to AI applications. Primary stack is PHP/Laravel, with hands-on experience writing Golang and Python for microservices, event processing with Kafka, and caching with Redis. Optimized system performance, cutting database load by 30%, and contributed to deploying production environments with Docker and Nginx.

### SKILLS

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- **Languages:** PHP, Go (Golang), Python, TypeScript/Node.js
- **Backend:** Laravel, REST API, Microservices, gRPC, Kafka, WebSocket, NestJS
- **Databases & Caching:** PostgreSQL, MySQL, MongoDB, MariaDB, Redis
- **Infrastructure & DevOps:** Docker, Nginx, SSL/TLS, CI/CD, Git, Unit Testing, Logging & Monitoring
- **Frontend & Mobile:** ReactJS, Next.js, Flutter, React Native (Expo)

### WORK EXPERIENCE

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#### Wolffun Game — Software Engineer

06/2025 – 06/2026

- Contributed to backend development for Brooks, an AI companion app live on iOS and Android, helping design the request-handling flow and keep the system stable and responsive during traffic spikes at peak hours.
- Designed REST API standards and response normalization rules for core business flows, enabling the mobile and admin teams to integrate across multiple releases without data mismatches.
- Found that the original Golang/Python codebase mixed business logic with data access, making bugs slow to fix. Proposed and led a refactor into separate layers, letting the team add new features without scattered changes across the codebase.
- Profiled the system to find bottlenecks, then added Redis caching and asynchronous processing via Kafka consumers for heavy tasks, cutting database load by 30% and reducing processing time from ~250ms to ~170ms.
- Packaged services with Docker, helped maintain the CI/CD pipeline, and handled production incidents when needed.

#### NewDev (Agency) — Software Engineer

01/2024 – 06/2025

- Contributed to backend development across several different client products: ride-hailing (XeApp), eSIM/IoT (UltraViolet SIM), plus a few hospitality, social, and Web3 platforms. Each project its own business problem and its own stack, from Go and Laravel to NestJS.
- Designed shared REST APIs for mobile apps, web dashboards, and internal services. Keeping the contract stable across updates let the frontend/mobile team build in parallel without waiting on sync.
- Built real-time flows such as driver matching, chat, and notifications using Redis pub/sub. As the system scaled across multiple instances behind a load balancer, clients still received events reliably instead of missing notifications.
- Configured Nginx reverse proxy and SSL/TLS directly, and deployed to production on CentOS/Linux rather than just handing code off to DevOps.
- Worked with MySQL, PostgreSQL, and MongoDB depending on each module's needs, and proactively reviewed cross-service flows to remove unnecessary calls that were slowing the system down.

#### Trainizi — Software Engineer

02/2023 – 01/2024

- Built microservices for an online training platform, covering the learning flow, content management, and user data for learners across multiple countries.
- Wrote most of the backend modules in Golang, focusing on input validation and response normalization to prevent data mismatches between services.
- Used gRPC for inter-service communication instead of plain REST, creating clear contracts that let backend modules integrate faster and with fewer errors.
- Beyond backend, also built the frontend in React.js/Next.js to complete the end-to-end flow from frontend to backend, rather than stopping at the API layer.
- Directly debugged integration issues and resolved data mismatches between the mobile app and admin dashboard when the two fell out of sync.

## FEATURED PROJECTS

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### Brooks — 3D AI Companion (iOS & Android)

Stack: Flutter, Laravel, Golang, Python, MongoDB, Docker

Vai trò: Full Stack Developer

06/2025 – 06/2026

App Store: <https://apps.apple.com/us/app/brooks-3d-ai-companions/id6758609741>

Google Play: <https://play.google.com/store/apps/details?id=com.mindos.aicompanions.ai>

- Contributed to the backend handling AI logic, using Laravel, Golang, and Python to integrate the AI provider into the chat flow and optimize response performance — making characters feel more natural and responsive than a typical chatbot, not just replying from a fixed script.
- Designed the conversation-memory mechanism: storing chat history and each character's personality settings in MongoDB, optimized for fast retrieval. This let characters recall what was said previously and proactively check in, instead of only responding passively.
- Contributed to backend support for the video call feature with real-time facial expression responses, which required processing AI data and syncing state with low latency.
- Worked in a small team of 4 engineers, involved from initial architecture design through to the app's official release on both the App Store and Google Play.

### XeApp (XE) — On-Demand Driver Service (iOS & Android)

Stack: Golang, Laravel, Flutter, React Native, MySQL, MongoDB, Kafka, Google Maps, Firebase, Docker

Vai trò: Full Stack Developer

03/2024 – 06/2025

Link: <https://www.xeapp.vn>

- The core challenge was preventing two drivers from accepting the same trip when requests arrived almost simultaneously. Solved it with a matching algorithm based on radius around the pickup point, ranked by distance and rating, then used a Redis lock to ensure only one request gets confirmed.
- Modeled the trip lifecycle as an explicit state machine (requested → accepted → arriving → in progress → completed/cancelled) instead of scattered boolean flags that were prone to inconsistent states.
- Logged every state transition to Kafka to create an event log, letting the support team accurately trace disputed trips instead of manually digging through data.
- Integrated Google Maps for routing and pickup distance calculations, serving 3 service lines simultaneously (motorbike, car, and affiliated drivers) across Ho Chi Minh City with its varied traffic conditions.
- Split the backend by service: Go handled the real-time flows that needed speed, Laravel handled admin and business logic, letting each part scale independently.

### UltraViolet SIM — eSIM/IoT Management Platform (Web)

Stack: Next.js, NestJS, PostgreSQL, Docker

Vai trò: Full Stack Developer

06/2024 – 03/2025

Link: <https://ultravioletsim.com>

- Contributed to building the NestJS backend for an eSIM/IoT management platform serving enterprise clients connecting devices across multiple countries. Split it into small, single-purpose APIs (SIM activation, data plan assignment, connection status tracking, usage history) for easier maintenance and scaling.
- Designed the PostgreSQL schema for device metadata, plan lifecycle, and CDR logs — this was the fastest-growing data in the system, so the structure needed careful planning from the start.
- After identifying usage-report queries as the heaviest, added indexes in the right places to cut response time without needing to refactor the entire schema.
- Built the Next.js/ReactJS dashboard so the operations team could look up device inventory, connection status by region, and billing data themselves, cutting down significantly on tickets sent to engineering just to check information.

## EDUCATION

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### University of Science, VNU-HCM

Electronics and Telecommunications • Graduation Pending Review

GPA: 7.02/10

## CERTIFICATIONS

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- VSTEP B1

## REFERENCES

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Nguyen Manh Tien — CTO, CellphoneS | PO, Wolffun Game

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