

# Do Duc Nghia

Backend / Software Engineer

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## Summary

Backend / Software Engineer with around 3 years of experience building private business systems with Python, Django/FastAPI, REST APIs, Firestore/Firebase, MongoDB, and VPS deployment. Strong in practical backend delivery across requirement analysis, API implementation, data modeling, deployment, and production support. Improved a Firestore-backed dashboard query/index pattern, reducing load time from approximately 8-10 seconds to around 1 second in a development environment. Best suited for Python-oriented backend/software engineering roles that value end-to-end ownership, business workflow understanding, and practical API/database problem solving, while remaining comfortable working across adjacent stacks when the job requires it.

## Core Skills

Backend/API Development · Python · Django · FastAPI · REST APIs · Business Workflow Systems · Firestore/MongoDB · Database Design · SQL/PostgreSQL · VPS/Linux Deployment · Docker · Production Support · Cross-Stack Adaptability

## Work Experience

### GKSoftware

2023 - 07/2026

Backend Developer

Built backend systems for private enterprise management products in a lean delivery environment, covering requirements, backend implementation, data modeling, deployment, and support.

- Built and maintained backend services for private business systems covering work management, documents, HR workflows, purchasing, project tracking, payments, quotations, contracts, and administrative operations.
- Translated business requirements into backend APIs, database structures, validation rules, file/data flows, and operational features used by real customer teams.
- Designed Firestore/Firebase and MongoDB data models around practical access patterns for business workflows, dashboards, document storage, and user actions.
- Improved Firestore-backed dashboard performance by optimizing query/index patterns, reducing load time from approximately 8-10 seconds to around 1 second in a development environment.
- Implemented REST API features including authentication/authorization, validation, pagination, file upload, logging, error handling, and frontend/mobile integration support.
- Deployed and maintained backend applications on VPS environments, handling practical work around nginx, SSL/certbot, server resources, and application troubleshooting.
- Used AI-assisted engineering workflows to break down tasks and speed up delivery, while retaining responsibility for logic review, manual testing, integration, and bug fixing.

### Evotek Technology Joint Stock Company

2022 - 2023

Android Developer Intern

- Contributed to Android application development with Kotlin, REST APIs, Firebase, and Room.
- Gained client-side experience that helps in collaborating with frontend/mobile developers when designing backend APIs.

## Selected Projects

### Enterprise Work Management Platform

**Stack:** Python, Django, Firestore, Firebase Auth, Firebase Storage, VPS

A private operations platform used by multiple customer companies for task assignment, documents, HR workflows, purchasing, project tracking, payments, quotations, contracts, and administrative processes.

- Took main backend responsibility from requirement analysis and data modeling to Django backend development, Firebase integration, deployment, and support.
- Designed Firestore data structures and API flows for multi-module business workflows, with attention to real access patterns.
- Optimized dashboard query/index patterns and reduced dashboard load time from approximately 8-10 seconds to around 1 second in a development environment.

### **Web-Based Construction Estimation System**

**Stack:** Python, Django, Firestore

A private web-based construction estimation system connected to a broader enterprise management ecosystem.

- Designed backend/database logic for estimation data with dependent values and recalculation/update flows triggered by user edits.
- Implemented Django backend APIs for domain-specific estimation workflows beyond simple CRUD.
- Worked with business requirements that required careful data modeling and consistency handling.

### **Work Management System v3**

**Stack:** FastAPI, MongoDB, VueJS, AI agents, MCP/tool-calling concepts

A rebuild of the work management system on a newer FastAPI/MongoDB stack, including experiments with AI-enabled workflows.

- Participated in rebuilding existing features with FastAPI, MongoDB, and VueJS.
- Worked with AI agent, MCP, and tool-calling concepts in the context of business workflow automation and internal tools.
- Coordinated AI-assisted implementation by breaking work into tasks, reviewing generated output, manually testing, integrating changes, and fixing issues.
- Helped bring the project to approximately 80-90% completion in 2-3 months while keeping technical review under human control.

### **CMS for Bottled Water Distribution Operations**

**Stack:** FastAPI, MongoDB

- Designed MongoDB data models and built FastAPI backend APIs for inventory, product, and shipper management.
- Applied practical backend/API design to a small-business operations domain.

## **Education**

**Posts and Telecommunications Institute of Technology**

2018 - 2023

Software Engineering

## **Technical Skills**

### **{ } Backend**

Python, Django, FastAPI, REST API, authentication/authorization, validation, pagination, file upload, logging, error handling

### **🗄 Databases**

Firestore, Firebase, MongoDB, NoSQL data modeling, SQL/PostgreSQL, schema design, query/index optimization

### **🔄 Deployment**

VPS, Linux, nginx, Docker, GitHub Actions, SSL/certbot, production troubleshooting

### **🤝 Collaboration & Workflow**

Git, source control, frontend/mobile API collaboration, manual testing, task breakdown, integration review, AI-assisted engineering workflow

### **🌐 Secondary Stack**

JavaScript, Node.js/Express, Java/Spring Boot, Android/Kotlin, VueJS, HTML/CSS