



# Nguyen Van Thien

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## PROFESSIONAL SUMMARY

Proficient in web programming. Primary focus on working independently and designing systems from scratch. Have experience in DevOps, team management, and recruitment.

## EDUCATIONAL BACKGROUND

**University of Information Technology**  
Vietnam National University, HCMC  
Bachelor's Degree in Software Engineering  
2017

## SKILLS & PROFICIENCIES

- Language: Python (proficient), Golang, PHP
- Database: MySQL, PostgreSQL, DynamoDB, DocumentDB/MongoDB, Neptune graph database.
- DevOps: AWS, Docker, Kubernetes, GCP
- Tools: Kafka, RabbitMQ, Elasticsearch, Redis
- Methodologies: Agile
- English: IELTS 6.5

## KEY PROJECTS

### AirPay Counter

- Served as a core Backend Developer, maintaining payment system stability and developing new features for critical financial infrastructure
- Built and maintained Django APIs across multiple services for transaction processing, order management, job scheduling, and comprehensive reporting functionality.
- Provided technical leadership through code reviews, project estimation, and solution design for partner integrations and system optimization challenges.

### Shopee Custom Product Page

- Building websites from partner requirements that can be embedded into the main store landing page.

## KEY PROJECTS

### Chat BE

- Developed multi-platform chat service integrating Zalo APIs with extensible architecture for future expansion.
- Built complete backend system using Django, Kafka, Python, and Flask from scratch independently.
- Optimized product requirements through PRD reviews and technical feedback for cost-efficient development.
- Deployed on GCP with Prometheus, ELK stack, and Sentry monitoring for performance tracking and error management.

### Orion Bioinformatics Portal

- Developed big data platform for storing, processing, and analyzing large-scale bioinformatics datasets.
- Built backend infrastructure using FastAPI and Celery for complex computational workflows and asynchronous processing.
- Architected scalable AWS deployment with VPC, load balancing, and ECS containerization for reliable service delivery.
- Established CI/CD pipeline using GitHub Actions and AWS CloudFormation for automated deployment.
- Integrated multi-database architecture with Postgres, DynamoDB, and DocumentDB for optimized storage.

### Business intelligence platform

- Built a comprehensive business intelligence portal consolidating mass email campaigns, customer relationship management, product manual hosting, and event registration into a unified platform.
- Leveraged existing infrastructure by integrating with other services for resource efficiency.
- Implemented a customer data management system using GraphQL APIs and AWS Neptune database for scalable relationship data processing.
- Established complete email marketing infrastructure including DNS verification, DKIM, DMARC configuration, AWS SES delivery system, template scoring, and reputation management.
- Developed product manual management system with automated barcode generation and NetSuite integration for streamlined inventory connectivity.

## WORK EXPERIENCE

### Intern Backend Developer

Vietnam Esports | *March 2015 to August 2015*

- Built a recruitment management system using PHP Laravel for CV processing and interview workflow automation.

### Backend Developer

SEA - AirPay | *September 2015 to October 2019*

- Developed payment backend for AirPay Counter with Python, handling transactions and partner integrations.
- Deployed containerized applications using Docker and Docker Compose on Linux servers with dynamic scaling.
- Maintained Angular frontend and Django template systems for a consistent user experience.
- Integrated multiple banking APIs using SOAP and REST protocols for payment gateway functionality.

### Backend Developer

SEA - Shopee | *October 2019 to December 2021*

- Managed GCP infrastructure with Kubernetes, Helm, Jenkins, and Ansible for automated deployments and monitoring.
- Built game backend using Golang and Go-Micro framework for scalable microservices architecture.
- Developed an e-commerce integration platform with Python Django for Shopee partner connections and order fulfillment.
- Led a team of more than 10 people running the Agile model, arranged sprint tasks, and held daily planning meetings.
- Mentored junior developers and interns on company development standards.
- Built a chat messaging system for thousands of users using Kafka and Elasticsearch for performance optimization.

### Side Project

Cardio Scape | *August 2022 - now*

- Storing and managing 3D heart scan models on AWS PostgreSQL and S3.
- Developed VR application features using Unity and XR Interaction Toolkit for immersive platform functionality.
- Implemented networked VR capabilities, including Fusion multiplayer, voice chat, and virtual conference systems.

## WORK EXPERIENCE

### Senior Backend Developer

Zymo Research | *January 2022 - now*

- Architected scalable cloud infrastructure using AWS services (VPC, Load Balancer, ASG, ECS, ECR, SES) deployed through CloudFormation, ensuring reliable web application delivery and automated resource management.
- Optimized database and storage solutions across multiple platforms, including S3, Redis, PostgreSQL, DynamoDB, DocumentDB, and Neptune to meet diverse application requirements.
- Developed robust backend services using FastAPI coupled with SQLAlchemy and Alembic, ensuring efficient database queries and seamless upgrade workflows.
- Reduced computational costs by implementing a hybrid cloud strategy, running heavy jobs on private HPC infrastructure orchestrated through AWS Batch and SQS, with dynamic resource provisioning based on pipeline requirements.
- Standardized deployment workflows by containerizing diverse analysis pipelines (Nextflow, Kedro, Luigi, Python scripts) with Docker, enabling consistent job execution across cloud environments.
- Established email marketing infrastructure by configuring SES dashboard, DNS settings, and DKIM certification, then implemented reputation monitoring through DMARC analysis and campaign optimization using tools like MailGenius.
- Integrated enterprise systems by building secure connections between backend services and NetSuite platform for product management and payment processing automation.
- Delivered customer-facing digital platforms including landing sites and e-commerce solutions using Sanity headless CMS and Shopify for seamless logistics and payment processing.
- Implemented comprehensive development workflows encompassing GitHub CI/CD pipelines, staging/production deployment processes, code review standards, and team task management through Jira integration.

### Public References

- <https://shopeepay.vn/>
- <https://shopee.vn/>
- <https://orion-microbiome.com/>
- <https://www.cardio-scape.com/>