NGUYEN GIA HUY

Backend Developer

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🌐 GitHub: https://github.com/HZeroxium

🌐 Portfolio: hzeroxium.me

CAREER SUMMARY

Third-year Software Engineering student seeking opportunities to deepen backend development skills through hands-on work. Interested in contributing to reliable, scalable backend systems while learning from real-world projects and experienced teams.

SKILLS

Core Technologies

- ***Programming Languages:*** JavaScript, TypeScript, Python, Java
- ***Backend & Architecture:*** Express, NestJS, FastAPI, Spring, Clean Architecture, Microservices, Modular Monolith
- ***Database & Messaging:*** PostgreSQL, MongoDB, Firebase, Redis, Pinecone, RabbitMQ, BullMQ
- ***AI & Real-time:*** *PyTorch, LangChain, LangGraph, OpenAI API, HuggingFace, SBERT, RAG, SSE, WebSocket*

Supporting Technologies

- ***Frontend:*** React, Redux, NextJS, Android
- ***DevOps & Cloud:*** Linux, Jenkins, Git, GitHub, Docker, Kubernetes, ArgoCD, DigitalOcean, Prometheus, Grafana
- ***Other Tools:*** Jest, Postman, Jira, Figma, Trello

Soft Skills: Problem-solving, self-learning, adaptability

EDUCATION

Computer Science / Software Engineering (University of Science, VNUHCM)   ***2022 - PRESENT***
- **GPA: 9.24 / 10.0 —** Received merit-based scholarships in semesters 2, 4, 5, and 6.
- Placed in the Top 2 for university entrance via national high school graduation exam (2022).
- Recognized in the Top 3 of the 2023–2024 Honor Roll for Advanced Program students.
- Participated in research at the Intelligent Software Engineering group, Department of Software Technology.

CERTIFICATE

- **Machine Learning Specialization** (by Stanford) https://bit.ly/49ZwAe7   ***10/2024***
- **Deep Learning Specialization** (by DeepLearning.AI) https://bit.ly/40jDyrd   ***11/2024***
- **Natural Language Processing Specialization** (by DeepLearning.AI) https://bit.ly/3BX6ADt   ***12/2024***

PROJECT

Vision Forge   ***1/2025 - 4/2025***
- **Team size**: 4, **Role**: Full Stack Developer, **GitHub** (**[Backend]** https://github.com/HZeroxium/vision-forge-backend, **[AI]** https://github.com/HZeroxium/vision-forge-ai, **[Frontend]** https://github.com/HZeroxium/vision-forge-frontend)
- **Overview**: A web platform that creates personalized media content based on user input, using machine learning models to generate both text and visuals aligned with different themes and user preferences.
- **Responsibilities**:
  - Designed and built a RESTful API using NestJS with user authentication and media management features.
  - Connected Redis and BullMQ to support background task handling for media processing.
  - Developed a FastAPI microservice to support multi-modal AI content generation.
  - Built a responsive Next.js frontend with real-time preview and smooth user interaction.
- **Tech Stack**: NestJS, FastAPI, NextJS, Redux, PostgreSQL, Redis, Message Queue, OpenAI API, LangChain, Pinecone.

Paperly (https://paperly-production.up.railway.app)   ***10/2024 - 1/2025***
- **Team size**: 4, **Role**: Full Stack Developer, **GitHub** (https://github.com/anhhuy007/paperly)
- **Overview**: A role-based news website built with server-side rendering, offering full article lifecycle management and user access control across multiple roles including guest, subscriber, writer, editor, and admin.
- **Responsibilities**:
  - Designed the database schema and developed RESTful APIs for managing articles.
  - Improved Redis caching to speed up article search, pagination, and category filtering.
  - Implemented a secure login system using PassportJS, Google OAuth2, token-based auth, and ReCaptcha v2.
  - Created responsive UI templates with Handlebars and styled them using TailwindCSS.
- **Tech Stack**: Express, Handlebars, PostgreSQL, Redis, Tailwind CSS

View more projects on my portfolio: https://hzeroxium.me/projects