

# PHAN DUC SUNG

Full-Stack Web Developer

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[GitHub](#) | [Portfolio](#) | [Linkedin](#)

## EDUCATION

**VNUHCM-University of Science**

Software Engineer Bachelor

GPA: 3.0

Ho Chi Minh City

October 2020 - August 2025

## EXPERIENCE

**University Course Project | Back-End Developer**

Ho Chi Minh City | June 2024 - August 2024

- Designed and implemented a RESTful API using Node.js and Express for an online Baking Service.
- Integrated Mysql for product/user data and implemented user authentication using JWT.

## SKILLS

Programming Languages: C++, JavaScript, Java, Python  
Libraries/Frameworks: Express, React, Django, Pytorch, Gin  
Tools / Platforms: Git, VS Code, Docker, NeoVim, Postman  
Databases: MongoDB, MySQL, Postgres, Redis

## PROJECTS / OPEN-SOURCE

**Graduation Thesis | [Link](#)**

*Python, PyTorch, PhoBERT, ResNet-50, Tkinter*

- Developed a multimodal VQA system for X-ray analysis, combining ResNet-50 (image features) and PhoBERT (Vietnamese question encoding).
- Enhanced diagnostic accuracy by fine-tuning on MURA and custom Vietnamese QA data, utilizing an attention-based fusion mechanism.
- Implemented and deployed the model with a Tkinter GUI, enabling user interaction for image upload and receiving diagnostic responses.

**Online Baking and Shopping Service | [Link](#)**

*NodeJs, ExpressJs, Docker, MySQL, Amazon EC2*

- Implemented robust Database Transactions for order creation, ensuring data integrity across orders, order\_items, and inventory using explicit commit/rollback logic
- Secured APIs using JWT and Bcrypt (password hashing). Enforced Role-Based Access Control (RBAC) via custom middleware to manage admin and staff permissions.
- Applied the DAO pattern for clear separation of concerns. Prevented SQL injection by utilizing parameterized SQL queries in all data models.

**Shortener URL | [Link](#)**

*Gin(Golang), Postgres, Redis, GORM, JWT, Tailwind CSS, React*

- Engineered a scalable full-stack URL shortener using Go (Golang) and React, demonstrating proficiency in distributed system architecture
- Implemented Redis caching with Sliding Expiration and the Cache-Aside pattern, reducing database load and optimizing lookup performance.
- Developed mandatory Email Verification and secured APIs using JWT and dedicated VerifiedMiddleware to restrict access for unverified accounts.

## CERTIFICATIONS

- Software Engineer Certificate - **HackerRank**
- Software Engineer Intern Certificate - **HackerRank**