PHAN DUC SUNG

Ho Chi Minh City, Vietnam

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Objective

Final-year IT student specializing in backend development with proven skills in Node.js, Python, and Java. Experienced in designing scalable, maintainable systems with clean architecture. Passionate about problem-solving, rapid adaptation, and delivering real-world solutions. Eager to contribute and grow in a dynamic professional setting.

Education

VNU-HCM University of Science   Oct. 2020 – Aug. 2025
Bachelor of Information Technology   *Ho Chi Minh*

Experience

University Course Project – Web Backend for E-Commerce Site   Jun. 2024 – Aug. 2024
Backend Developer   *VNU-HCM University of Science*
- 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.
- Containerized the application with Docker and deployed it on a VPS for production use.

Projects

Graduation Thesis | *Python, PyTorch, PhoBERT, ResNet-50, Tkinter*   Apr. 2025
- Developed a **Visual Question Answering (VQA)** system for **bone disease diagnosis** from X-ray images and Vietnamese medical questions
- Designed a **multimodal architecture** with **ResNet-50** for image features and **PhoBERT** for question encoding
- Fine-tuned on **MURA dataset** and custom Vietnamese QA set from Orthopedic Trauma Hospital
- Boosted accuracy using **attention-based fusion** and **domain-specific data augmentation**
- Built a GUI with **Tkinter** for uploading images, asking questions, and receiving diagnostic responses
- **GitHub Repository**

Online Baking and Shopping Service | *Node.js, Express.js, MySQL, Docker, EC2*   Jun. 2024
- Designed & implemented **RESTful APIs** for order processing, authentication, and admin control
- Created backend logic for **real-time order updates**, revenue tracking, and role-based access control
- Applied **DAO pattern** for clean, maintainable code structure
- Secured backend with **parameterized raw SQL queries** and connection pooling
- Deployed using **Docker** and **AWS EC2** for scalability and portability
- **GitHub Repository**

Java Networking Application | *Java, Java Swing*   Dec. 2023
- Built a **client-server system** for **real-time file monitoring** using Java Sockets
- Client selects directories via `JFileChooser`, sends path via **TCP socket**
- Server uses **Java NIO WatchService** to track **file create/modify/delete** events
- Implemented **multi-client support** with dynamic GUI updates via Swing
- Handled graceful client disconnection and server-side monitoring control
- **GitHub Repository**

Technical Skills

Languages: Python, Java, C++, Shell, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, NeoVim, Git, Docker
Technologies/Frameworks: Linux, GitHub, Express, Spring Boot, React, MySQL, MongoDB

Certificates

- **HackerRank** — Problem Solving Basic & Intermediate, Software Engineer Intern & Engineer