



NGUYEN HOANG DUNG

Software Developer Intern | Web Developer Intern

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OBJECTIVE

I am a third-year Software Engineering student with an interest in Software Development and Web Development. I am looking for an internship opportunity in a professional technology environment where I can improve my programming skills, gain experience in real-world projects, work with REST APIs and databases, and learn the practical software development process. I hope to learn from experienced engineering teams and contribute to software products with practical value.

EDUCATION

2023 - Present **Electric Power University**
Major: Software Engineering
GPA: 3.74/4.0

SKILLS

Programming Languages	C#, Python, JavaScript, SQL, Basic Java.
Frontend	HTML5, CSS3, ReactJS, Bootstrap.
Backend	ASP.NET Core MVC, Node.js, REST API, ASP.NET Identity, Entity Framework Core.
Databases	MySQL/MariaDB, PostgreSQL.
Tools	Git, GitHub, Docker, Postman.
Research/Exposure	OCR, Digital Signature, Apache Spark, Elasticsearch, RabbitMQ.

RESEARCH PROJECTS

11/2024 - 05/2025 **Security Features in MariaDB and PostgreSQL.**
Role: Research Member.
Team size: 4 members
Status: Completed and accepted
Certifications: University-level Research Certificate; Student Scientific Research Conference Certificate; EEE-AM 2025 Certificate of Attendance.
Technologies: MariaDB, PostgreSQL, ASP.NET Core, Blazor Server, Tailwind CSS, Authentication, Access Control, Encryption, Audit Logging, Backup/Recovery.

- Researched and compared security features in MariaDB and PostgreSQL, including authentication, access control, encryption, audit logging, backup/recovery, and SQL Injection prevention.
- Participated in building a conference management web application to evaluate database security mechanisms in an experimental environment.
- Presented the research at the 2025 Student Scientific Research Conference of Electric Power University.
- Co-Author of International Research Paper "Security Features in MariaDB and PostgreSQL and Applying in Software Engineering" which is Presented and Published in the Proceedings of The 2025 International Conference of 2025 IEEE Asia Meeting on Environment and Electrical Engineering (EEE-AM 2025), Scopus Indexed.

09/2025 - 02/2026

Secure Document Storage and Search System using Apache Spark & Elasticsearch.

Role: Research Member.

Team size: 9 members.

Status: Completed and accepted.

Certifications: University-level Research Certificate; Student Scientific Research Conference Certificate.

GitHub: <https://github.com/ng-dung12055/Demo-ApacheSpark-Elasticsearch.git>

Technologies: Apache Spark, Elasticsearch, MySQL, AES-GCM, HMAC-SHA256, JWT, RBAC, SSL/TLS, Audit Log.

- Researched Apache Spark and Elasticsearch architecture for secure document storage and search.
- Supported the analysis of data flow between Web Application, MySQL, Apache Spark, and Elasticsearch.
- Participated in describing metadata-based search, access control, data encryption, and audit logging mechanisms.
- Presented the research at the Student Scientific Research Conference of Electric Power University.

03/2026 - Present

OCR and Digital Signature Techniques for Document Management System.

Role: Research Lead / Principal Investigator.

Team size: 8 members.

Status: In Progress.

Technologies: PaddleOCR, VietOCR, LayoutLMv3, OpenCV, scikit-image, PAdES, Database, REST API.

Contributions:

- Lead a research project on applying modern OCR and digital signature techniques to an official document management system.
- Analyze workflows for incoming/outgoing documents, document storage, search, and electronic document verification.
- Research OCR integration for extracting text from scanned documents and digital signature techniques for document authentication.
- Prepare system analysis documents, functional descriptions, system architecture, and Web/API implementation direction.

OTHER PROJECTS

01/2026 - 04/2026

Edu LMS – Online Learning Management System

Team size: 3 members | **Role:** Team Lead

GitHub: <https://github.com/ng-dung12055/Edu-LMS-Online-Learning-Management-System.git>

Technologies: ASP.NET Core MVC, Entity Framework Core, MySQL, Pomelo Provider, ASP.NET Identity, Bootstrap 5, Chart.js, FullCalendar, VietQR, SePay Webhook, ClosedXML, Docker, Git/GitHub.

Description: Edu LMS is a web-based learning management system for three user roles: Admin, Instructor, and Learner. The system supports course management, lesson management, user management, learning progress tracking, role-based authorization, and several features for online learning operations.

Contributions:

- Analyzed requirements and designed core features for Admin, Instructor, and Learner roles.
- Developed features for managing courses, lessons, users, and learning progress.
- Designed the database structure and main processing flows for core system features.
- Applied role-based authorization using ASP.NET Identity and supported project setup with Git/GitHub and Docker.

HONORS & PUBLICATIONS

Academic Scholarship Academic Encouragement Scholarship for 5 consecutive semesters, 2023 - 2026.

International Publication Co-author of "Security Features in MariaDB and PostgreSQL and Applying in Software Engineering", IEEE-AM 2025, Scopus Indexed. Link: <https://ieeexplore.ieee.org/document/11473793>

University-level Research Received university-level research certificates for projects related to MariaDB/PostgreSQL Security and Apache Spark & Elasticsearch.

