

# DANG PHUONG KHOI

## NGUYEN

FRONT-END DEVELOPER

### ABOUT ME

As a junior studying Software Engineering, I aim to leverage my technical knowledge and problem-solving skills to contribute to software development and collaborative team projects in a professional setting. With a strong foundation in coding with React and Node.js, combined with experience in Java and Python, I can deliver impactful results by collaborating effectively with dynamic teams to achieve shared objectives.

### EDUCATION

#### SOFTWARE ENGINEERING

FPT UNIVERSITY | 09/2023 - 06/2027

- Collaborated with colleagues and worked independently to enhance 23 class and personal projects, applying mentor guidance to achieve 35% improvement in quality and accelerate skill development. Demonstrated proficiency in NodeJS and Java, and active in technologies to enhance outcomes and stay current with advancements.

### ACTIVITIES

#### FPT UNIVERSITY

5/2025 - now

#### Team Leader/Vice-leader

- Led a team of 3 developers to create a Learning Management System with: 3,000+ lines of Java code across 25+ classes, 7 core database entities, 12 JSP pages delivering dynamic content, 8 DAO services handling data operations, 10+ RESTful endpoints for system functionality, 15+ database tables with optimized relationships, 95% test coverage across core features, 100+ potential users supported
- Led 5-member team as vice-leader to deliver plant monitoring IoT system with: Integrated 8+ Arduino sensors for real-time moisture/temperature tracking, 92% prediction accuracy using ML algorithms for watering forecasts, RESTful API handling 1000+ daily requests with Node.js/PostgreSQL, reduced API response time by 40% through query optimization, developed responsive web UI with Next.js

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### TECHNICAL SKILLS

**Languages:** JavaScript, HTML5, CSS3, Python, Java

**Frameworks & Libraries:** React, Node.js, Spring Boot, Next.js, Express

**Databases:** MySQL, PostgreSQL, MongoDB, Microsoft SQL Server

**Tools & Platforms:** Git, Github, Adobe Photoshop, Microsoft Office

**Concepts:** OOP, Test Driven Development, Analyst user needs

### LANGUAGES

#### ENGLISH

- C1 (IELTS 8.0)

#### JAPANESE

- A2 (JLPT N4)

### ACHIEVEMENTS

#### HUAWEI ICT COMPETITION

Network Track – 3rd Place Global  
Huawei Technology Co.Ltd

5/2024

## PROJECTS

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### PLANTSMART

9/2025 - 11/2025

**Description:** Platform to manage my plants' health & automation

**Site:** <https://github.com/FA25-SWP391-G4/SWP391-Plant-Monitoring-System>

**Position:** Fullstack Developer and Designer

**Purpose:** School project

**Detail:**

- **Architected a modular Express.js API with 18+ controllers** to handle plant monitoring, IoT sensor data, AI analysis, real-time dashboard functionality... with PostgreSQL integration.
- **Implemented comprehensive email and payment service integrations** to provide automated notifications and premium subscriptions with queue management and rate limiting.
- **Built an authentication system with JWT tokens and OAuth 2.0** to support authentication workflows and role-based access control.
- **Developed a multilingual React SPA with 6 language support** to serve global users through comprehensive i18n implementation with 1,500+ translation keys and automated integrity testing.
- **Created 15+ specialized API client modules with Axios** to provide seamless frontend-backend communication and workflows.

### PORTFOLIO

2024 - now

**Description:** A modern, responsive full-stack portfolio website showcasing web development skills with interactive features and professional design.

**Site:** <https://jamesdpkn.id.vn>

**Position:** Full Stack Developer & UI/UX Designer

**Purpose:** To create a professional online presence showcasing technical skills, projects, and providing a direct communication channel for potential employers and clients.

#### Key Technical Achievements:

- Implemented secure email communication system with Resend API integration
- Created responsive, mobile-first design using modern CSS frameworks
- Built RESTful API with proper error handling and validation
- Developed with TypeScript for improved code quality and maintainability
- Configured cross-origin resource sharing for secure client-server communication