

**INTERNATIONAL UNIVERSITY**  
**Vietnam National University – Ho Chi Minh City**



**Report**

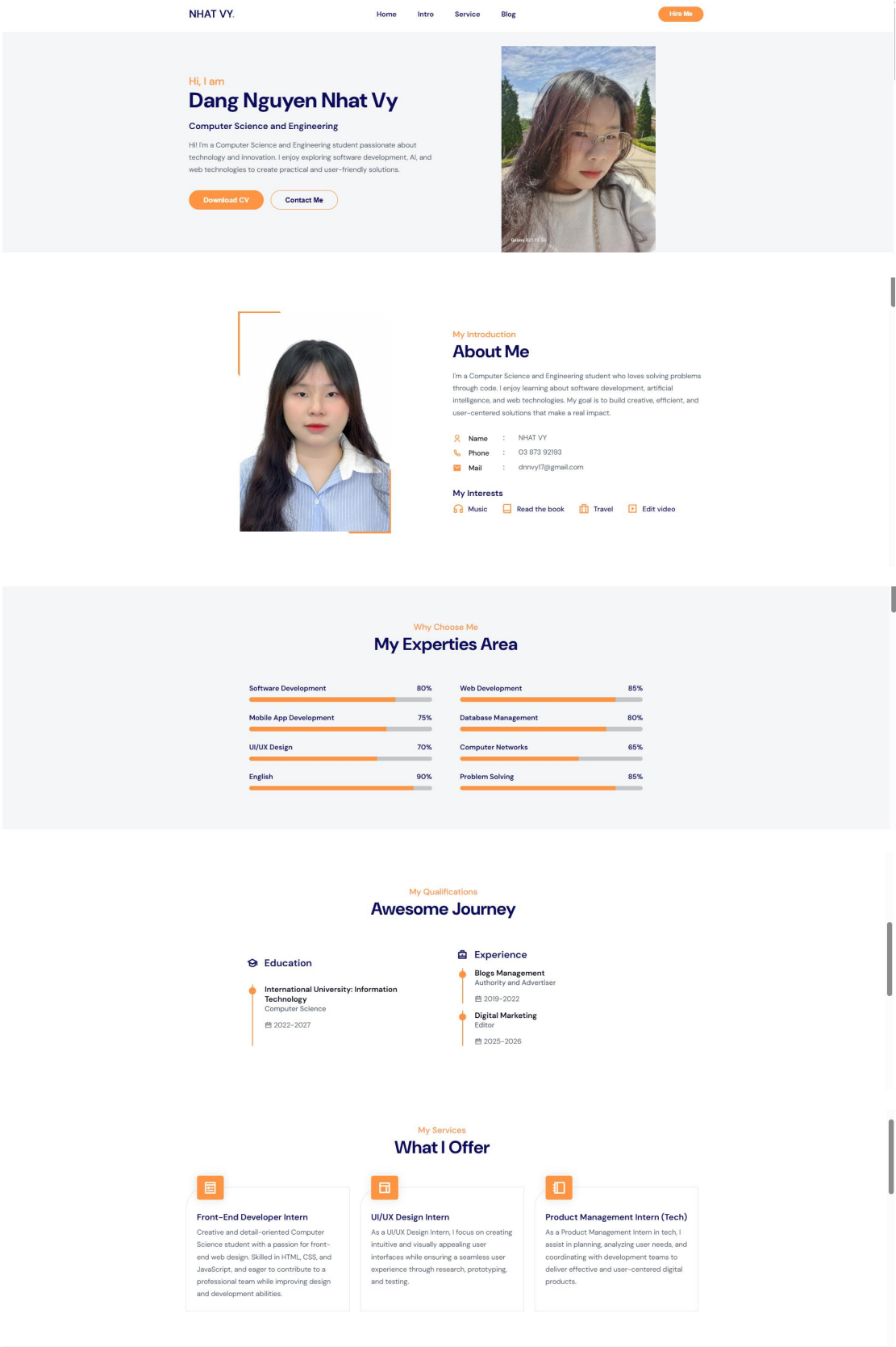
**Web Application Laboratory**

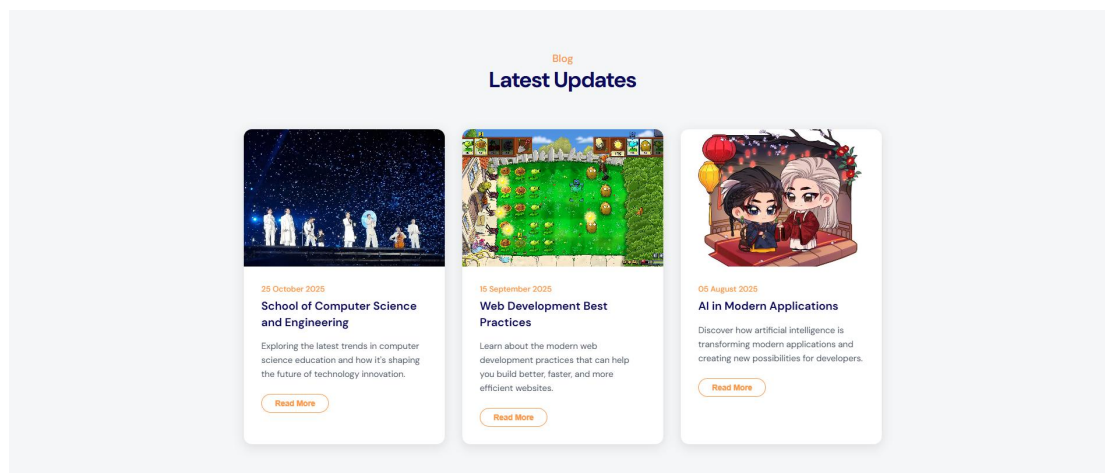
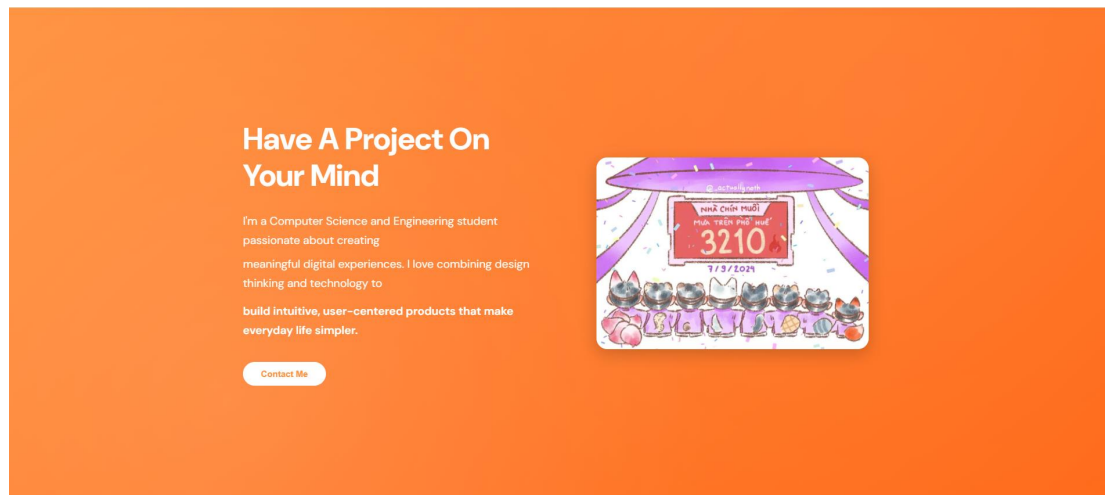
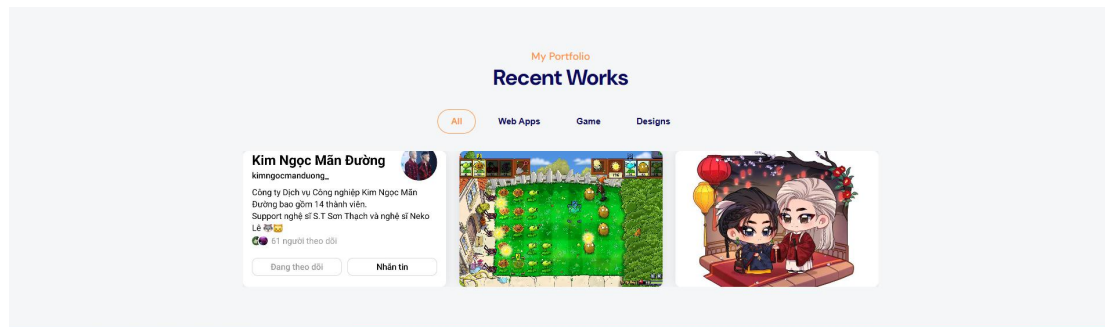
Đặng Nguyễn Nhật Vy

**Lab 1**

**International University – Ho Chi Minh City**

# Output





## 1. Project Overview

This project is a responsive personal portfolio website built using HTML, CSS, and JavaScript.

The website showcases my professional profile, projects, skills, and contact information in a clean, modern, and interactive way.

It aims to serve as both an online resume and a digital portfolio for job applications and professional networking.

## 2. Objectives

To design and develop a personal website that introduces myself and my work.

To practice and apply front-end web development skills (HTML, CSS, JS).

To ensure the website is fully responsive and performs well across devices.

To include interactive features such as animated navigation, hover effects, and smooth scrolling.

### **3. System Design - Website Structure**

Header – Includes logo, navigation bar, and responsive menu.

Hero Section – Short introduction and call-to-action button.

About Section – Personal information, education, and skills.

Services Section – Overview of services or abilities (e.g., UI/UX Design, Web Development).

Portfolio Section – Showcase of previous projects with images and descriptions.

Blog Section – (Optional) Articles or writing samples.

Banner Section – Promotional or motivational quote.

Footer – Contact information and copyright note.

### **4. Implementation Details**

#### ***HTML***

Semantic HTML5 structure for accessibility and SEO.

Section tags used to separate each part of the website.

Navigation menu linked with section IDs for smooth scrolling.

#### ***CSS***

Color variables declared in :root for theme consistency.

Flexbox and CSS Grid used for responsive layouts.

Hover effects, transitions, and animations applied for interactivity.

Media queries used for responsiveness at 540px, 768px, 1024px, and 1200px breakpoints.

#### ***JavaScript***

Handles navigation menu toggle (open/close).

Enables "scroll-to-section" smooth animation.

(Optional) Adds scroll-reveal animations for elements appearing on screen.

## **5. Key Features**

Responsive design for all screen sizes (mobile-first approach)

Interactive navigation with animated hamburger menu

Smooth scrolling between sections

Animated buttons and hover transitions

Custom color theme using CSS variables

Clean, professional, and minimalist layout

## **6. Conclusion**

This project helped me apply front-end development skills and understand how to structure, style, and animate a real website.

It also improved my understanding of responsive design principles, component organization, and visual aesthetics.

The final website serves as both a personal brand showcase and a foundation for future web development projects.