

# DIEP HAI BINH

Python Backend Developer

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## OBJECTIVE

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I am a programmer with a degree in Computer Science. During my learning journey, I worked with different ways to handle text and image data using Python. Because I enjoy working with data, I decided to become a Python programmer. I always want to learn more about Python, especially building websites with the Django framework.

## EDUCATION

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University of Science, VNU-HCM (2017 – 2021)

Bachelor of Science in Computer Science (Knowledge Engineering)

GPA: 2.7/4.0

## SKILLS

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Platforms: Redis, PostgreSQL, Docker, Elasticsearch

Languages: Python, Javascript, SQL

Frameworks: Django, Django REST framework

Others: Django Celery, Mux CDN, GCP (Google Cloud Platform), FCM (Firebase Cloud Messaging)

Additional skills: ExpressJS, NestJS

## ACHIEVEMENTS

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### January 2021 - July 2021 | Text Detection Website

Developed a text detection system for both local and web-based documents using Django.

Key features:

- Extracted text from various document formats: .doc, .docx, .pptx, .pdf, .rtf
- Used VnCoreNLP and Underthesea for tokenization and part-of-speech tagging
- Applied the TF-IDF algorithm to extract keywords
- Implemented text similarity with Levenshtein distance and Siamese Recurrent Networks

### January 2021 | Seamless Image Cloning

Seamless image cloning is a technique used in image processing and computer vision to combine two or more images in a way that the transition between them appears smooth and natural.

Key features:

- Researched and applied Poisson Image Editing techniques
- Built a basic image processing tool using OpenCV, Pillow, and NumPy

## WORK EXPERIENCES

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### February 2024 - Current

Company: Vio Technology

Description: Vio - Smart Booking is a mobile application for booking services, buying and selling products, and organizing events. Users can quickly search for services, products, or join events happening around them.

Responsibilities:

- Contributed ideas to develop user-friendly and practical features  
Developed APIs using Django Rest Framework
- Optimized the backend system by applying caching techniques to improve API performance
- Integrated CDN, GCP (Google Cloud Platform), and ZNS (Zalo Notification Service), FCM (Firebase Cloud Messaging) into the system
- Improved, updated, and utilized Elasticsearch
- Built a product recommendation system to personalize suggestions for users

### October 2022 - April 2023

Personal project: E-learning website (Ecourse)

Description: Ecourse is an online learning platform similar to Udemy, Coursera, and DataCamp.

Responsibilities:

- Designed database using PostgreSQL.
- Built APIs using Django REST Framework.
- Managed the Django admin features.
- Developed key features: User, Document, Course, Class, Posts, Quiz, and Certification

## **February 2022 – July 2023**

Company: HDWebSoft

Position: Python Backend Developer

Project description:

- **Pure IV mobile application (March 2022 – June 2022):**

A mobile app for scheduling in-home medical appointments, working similarly to Grab or Uber.

- **HomeMeta website (July 2022 – July 2023):**

An internal tool called "Digital Recon" that helps real estate agents by combining and analyzing various data sources. It extracts property, homeowner, and agent data to support marketing through SEM, SEO, and Direct Mail.

Responsibilities:

- Developed new features for existing Django-based platforms
- Wrote SDKs (Software Development Kits) for APIs
- Researched and crawled data from Title ToolBox (Benutech), Aidentified, and RESO
- Collaborated with the frontend team (ReactJS / React Native) using RESTful APIs