



NGUYEN CAO THIEN TRI

I'M TRI. I HAVE SIX YEARS OF EXPERIENCES AS BACKEND DEVELOPER WITH STRONG KNOWLEDGE IN PYTHON – DJANGO.

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SKILLS

BASIC

- Understand mutable and immutable.
- Knowledge using function map(), filter(), reduce() and using lambda function.
- Know how to use itertools to make code shortest.
- Using generators, iterators to save the memory.
- Familiarity with closures and decorators, descriptor.
- Knowledge about web-socket, memorize-cache.
- Knowledge of functional and meta programming and write code following PEP8 guidelines.

DATA STRUCTURES AND ALGORITHMS

- Sorting algorithms: selection, interchange, insertion, binary insertion, bubble, shaker..
- Data structures: linker list, stack, queue, hash table, tree.

OOP

- Understand decorator @classmethod and @staticmethod.
- Knowledge operator overloading by Magic method: __add__, __sub__ ...
- Familiarity decorator @property, @cache_property, @getter, @setter.
- Have experience in overriding vs overloading.
- Inheritance and multiple inheritance with MRO.
- Knowledgeable about various types of design patterns as well as clean code techniques.

DATABASE

- Understand and write query and Using index to speed up search.
- Have the knowledge to recognize and handle problems related to asynchrony.
- Coordinate caching of non-obsolete data with REDIS to increase software performance.

WORKING

- Familiarity with Agile, Scrum, CI/CD, Git.
- Know how to use Docker to build and communicate in designing software systems, as well as Kubernetes (K8S).

DJANGO

- Object Relational Mappers, Restapi.
- Architecture MVT(model – view – template).
- Familiarity with design pattern: Factory Method, Observer Pattern, Singleton, Strategy, Decorator pattern.
- Customize DJANGO framework, exception and response have the same structure.
- Using select_related and prefetch_related resolve n+1 queries.
- Knowledge migration and resolve error.
- Have experience with DJANGO-OSCAR, DJANGO-SALESFORCE.

MACHINE LEARNING

- Understand algorithm and using lib support for algorithm.
- Similarity between two object: euclidean, manhattan, minkowski, cosine, Jaccard ...
- Kmean, Knn, Linear regression..
- Familiarity Neighborhood-Based Collaborative Filtering, naive bayes Classifier.

EXPERIENCE

JUL 2022 – NOW

Python - Trustonic, AGEST

Description: Manage the status of smartphones and tablets for mobile device rental services.

Archivements: Build an API system that supports **159 customers** with ... **active devices** on the system, enabling them to interact with the internal platform with **low latency in milliseconds**, handling the **upload of 10,000** devices in less than **25 seconds**. The process includes **complex workflows** such as input data validation, permission checking and user authentication, verifying the validity of devices within the system, uploading devices to the system, checking response data, and And **respond to the user** with clear and **easy to understand**. Additionally, **design a simple** and **scalable system architecture** that is **easy to manage** through pre-exported modules, which can **significantly enhance work efficiency**.

Optimize the **storage of policy settings** on the system for **maximum performance** by updating only the necessary changes. Additionally, certain settings, when modified, will **automatically notify relevant modules** via the SQS system. This system is designed to be **easily maintainable, extensible, and reliable**, with **minimal errors**, and capable of **handling a large volume of requests**.

Build an automated system to **sync state** for ... **active devices** on the system with complex conditions.

In summary, the systems are built with **low maintenance costs**, a **clear and understandable structure, easy scalability**, and the ability to handle a **high volume of user requests with low response times**.

JUL 2021 – JUL 2022

Python - Clear cache tools, HYBRID-TECHNOLOGIES

Description: Synchronize files based on changes such as additions, deletions, and modifications from the parent server to the child server.

Archivements: Helped one customer **synchronize HTML, CSS, JS** and **other files** across **different storage repositories** to ensure content and configuration **consistency on their static websites**. Provided complete documentation to users.

JUL 2020 – JUL 2021

DJANGO-OSCAR - JOA SHOP, HYBRID-TECHNOLOGIES

Description: development lending or selling medical related equipment.

Archivements: Built a **permission management system** and **customized sales operations** to align with the **customer's business model**, using the **MVT architecture**.

JUL 2018 – JUL 2019

DJANGO - DOOPAGE, YOUTHDEV

Description: The product is built to serve sales staff and customer service representatives on digital platforms such as Zalo, Facebook, Shopee, etc., and is **trusted by many customers in Vietnam**.

Archivements: Build a system with customizable scenarios that **automatically respond** to customers using **regex**. Participated in building systems to **store user authentication tokens** from **various platforms**, enabling the **aggregation of user message data** into the system. Built a **templated statistical reporting system** that **automatically sends reports to customers** every Monday.

FREELANCER

SEP 2020 – NOW

PYTHON - KHAC GHI MOI NGAY

Description: a calendar project where users input historical information for each day, helping military personnel reinforce their learned knowledge. Automatically sends notifications to mobile phones **every morning and evening** daily.

DJANGO-SALESFOCE - SF

Description: Automatically schedules participation in meetings based on specific user-defined criteria, with two-way **synchronization** between **Salesforce (SF)** and **Django**.

FASTAPI - JOILMILL

Description: **Monitored** the **quality of frying oil** and built a replacement level chart based on oil color, with five indicator levels. Also participated in maintaining existing API systems

FASTAPI - NACIEL

Description: Participated in maintaining existing systems and developed features such as a **notification bar** and **similarity** level calculation for **asset** deployment **based on location**

EDUCATION

SEP 2015 – JAN 2020

INFORMATION SYSTEMS, UIT

Description: Predict the number victim by confirmed-recovered covid-19.

Passed outline appraisal scientific research.

JUL – SEP 2019

DATA SCIENCE, CODERSCHOOL

Description: Data processing and build a recommendation system based on product views.

AWARDS AND RESEARCH

Participate in a lot of hackathons like Shift Saigon, Dappathon, Unesco,...

1st prize at Twogap hackathon.

Blockchain / [RealtimeChat](#) - PHP / [BookManager](#) - VisualBasic

CERTIFICATE

[Problem Solving](#) (Basic) – **Hackerank**.

[Python](#) (Basic) – **Hackerank**.

[Functional Programming in Python](#) - **Educative**.

[Full Speed Python](#) - **Educative**.

[Dart](#) - **Educative**.

Developing Mobility With .Net Xamarin – **FPT**

Nanoversity.

Data science track_hcm – **CODERSCHOOL**.

Badges

