NGUYEN TRONG THUAN

SOFTWARE DEVELOPER

📍 Tan Phu district, Ho Chi Minh city

📞 0328.221.179

✉️ ntthuan060102.work@gmail.com

🌐 https://ntthuan060102github.github.io/NguyenTrongThuan

SUMMARY

Experienced Backend Developer with nearly 2 years of expertise in designing and building robust backend solutions. Skilled in team collaboration, efficient software development, and meeting deadlines and budgets. Proficient in backend technologies like database management, API development, and server optimization. Specializes in creating resilient systems, optimizing performance, and rigorous testing. Known for exceeding client expectations and seeking opportunities to contribute to dynamic teams.

EDUCATION

University of Science - VNUHCM (2020 - 2024)

Major: Information technology - Information system

GPA: 3.0/4.0

WORK HISTORY

Digital Transformation Center - FPT Telecom

Backend Developer   06/2022 - Present

I joined the company in June 2022 as a backend developer and quickly became part of an internal project supporting the telecommunications technicians. My responsibilities include building micro-services components and addressing any troubleshooting issues that arise. As a backend developer, I work closely with stakeholders to define project requirements, ensuring that our micro-services stay aligned with the evolving needs of the telecommunications support team. I also actively monitor system operations and use my technical expertise to make informed decisions to maintain system performance.

PROJECTS

My PT

- **Overview**: The project includes two softwares:
  - Mobile app: Internal app for 6000 technical staff of FPT work outside to receive customer requests, contact with support center, ….

- Website: A public website exclusively tailored for our headquarters' office staff serves as a vital tool to facilitate the smooth handling of requests from our technical workforce.
- **Key skills utilized**: Python, Django, Rest framework, MySQL, Redis, distributed queue, message queue, Firebase Cloud Messaging, Docker, CI/CD, data caching, Restful API, event sourcing, database design, logging, security, gRPC, SMTP server, Kafka, Kubernetes (K8s), unit testing,...
- **Role and responsibilities**:
  - Project setup: Initialize and configure the Django project, build the core for the project, integrate the necessary modules for micro-services system.
  - Develop a database schema tailored for micro-databases, craft RESTful APIs, and implement comprehensive unit tests.
  - Architectural design, construction, development and operation of a highly scalable crontab and queue system that can handle a massive volume of requests per day.
  - Efficiently deploy services and proactively monitor them across various environments, ensuring their continuous and optimal performance.

Zeta

- **Overview**: Zeta is my personal project that simulates the same main functions as today's popular social networks.
- **Key skills utilized**: Javascipts, MongoDB, NodeJS, MERN Stack, Redis, Socket, chat app, video call, Firsebase hosting, Firebase storage, ReactJS, ExpressJS, CI/CD, Netlify, ...
- **Role and responsibilities**:
  - Project Initialization: Initiate and configure a Node.js and React.js project, establish coding standards, and carefully select suitable libraries and plugins for the project's needs.
  - Create a comprehensive schema for a NoSQL data model, with MongoDB as the primary database, to optimize data management and storage.
  - Design and author micro-services, generate RESTful APIs, establish an efficient management mechanism, and partition socket connections for seamless operation.
  - Design and construct website interfaces, seamlessly integrate RESTful APIs for real-time data retrieval and display, thereby enhancing the overall functionality of the website.

My other personal projects

- My portfolio: https://ntthuan060102github.github.io/NguyenTrongThuan
- My Github: https://github.com/ntthuan060102github

OTHER SKILLS

Language: Capable of reading English documents and using English at intermediate level.

Programming language is not the problem, I am excited to learn a new programming language in 1 or 2 month and apply to the project. Here are some languages/technologies that I have experienced:

- **Web development**: Create responsive design user interfaces, front-end web development with ReactJS or VueJS.
- **Oracle**: I'm skilled in securing and managing permissions in Oracle databases and can provide security policy development and consulting. My knowledge also extends to other database management systems like MySQL, Microsoft SQL Server,...
- **Redis:** I typically utilize Redis with its primary role being database caching. However, I am also proficient in leveraging Redis for countdown tasks through Redis keyspace notifications or implementing a small message queue using Redis Pub/Sub. My experience extends to maximizing Redis's capabilities for various use cases to enhance system performance and functionality.
- **Unity/C#**: I have hands-on experience in developing simple 3D games using Unity. My skills include basic script design and the ability to work on game development projects based on existing designs.
- **Python**:Proficient (I used for AI and machine learning, game development, website/app development projects):
    - Developed machine learning models, object detection models using libraries such as TensorFlow, scikit-learn, YOLO v5,...
    - Designed and developed RESTful APIs and backend services using Python frameworks such as Django and Flask.
    - Designed and developed games with PyGame and Tkinter.
- **C/C++:** I exclusively utilized C/C++ for my assignments while in university, without practical real-world workplace experience.
- **Other back-end development languages**: I researched various backend development languages like Python, JavaScript, Java, C#, and C++. I found Python with the Django framework to be a strong choice, but I'm open to using any language that best fits a project's requirements and emphasizes adaptability.