NGUYEN TRONG THUAN

BACKEND ENGINEER

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SUMMARY

Greetings, my name is **Nguyen Trong Thuan**. I'm a seasoned back-end developer with nearly **2 years of hands-on experience**. I am seeking opportunities to expand my knowledge and refine my skills in a stimulating and supportive environment. As I progress in my career, I am eager to cultivate meaningful connections and collaborations that will contribute to my future endeavors.

WORK HISTORY

Digital Transformation Center - FPT Corporation

Backend Developer   06/2022 - Present

PROJECTS

My PT Application

- **Overview**: FPT's internal application efficiently serves its staff, accommodating average capacity of **5000 concurrent users (CCU)**.
- **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, Kafka, unit testing,...
- **Team size**: 7 team members / 26 project members
- **Role and responsibilities:**
    - Develop the logical database schema and translate it into a physical schema based on **transaction analysis** and **system capabilities**.
    - Implement **data security, access controll policies** and optimization solutions on database.
    - Deploy REST and RESTful APIs while implementing robust security mechanisms for API protection.
    - Construct, operate and maintain high level **crontab service** and d**istributed queue** for entirely micro-services cluster.
    - Develop **push notification service** with more than **100,000 notifications** during office hours.
    - Design **user behavior tracking workflow** to serve analysis.

FPT - HRIS Web Application - Director and Back Office

- **Overview**: A dedicated web application supports the back office (BO) departments in managing personnel information, system administration, salary, and activity history tracking. Additionally, it includes data management pages to customize feature settings on the My PT app.
- **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, Kafka, unit testing,...
- **Team size**: 7 team members / 26 project members
- **Role and responsibilities:** Work similar with the above My PT project but have more works related to data such as:
  - Contribute **develop the ETL pipeline** for data topics.
  - **Analyze logged and tracked data** to improve business development.
  - Combine both **distributed queue** and **message queue** to improve data process from **4 internal big data systems**.

My other personal projects

- **Description:** Other project related to many topics such as **ETL pipeline** (airflow, SSIS,...), **game development** (Unity/C#, Pygame,...), **oracle development** (data security, access controll with VPD, DAC, RBAC, OLS,..),...
- **Portfolio**: https://ntthuan060102github.github.io/NguyenTrongThuan
- **Github**: https://github.com/ntthuan060102github

OTHER SKILLS

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

Other technical skills:
- **Web development:** ReactJS, VueJS,...
- **Oracle & other DBMSs:** Experience implementing data security and access control policies in Oracle (using **DAC, RBAC, VPD, OLS**,...) and other similar DBMSs.
- **Redis:** Use Redis as the main database cache. Additionally, use Redis features such as **Redis keyspace notification**, **Redis Pub/Sub**,... to make special requests.
- **Programming languages**: Python, C/C++, C#, Java, Javascript,...
- **ETL/ELT**: SSIS, Airflow,...
- **Tools**: Postman, Docker, Visual Studio, Visual Studio Code,...

EDUCATION

University of Science - VNUHCM (2020 - 2024)

Major: Information technology - Information system