

# NGUYEN TRONG THUAN

## BACKEND DEVELOPER

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## SUMMARY

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I have experience as a **backend developer** with a practical background spanning **two years**. Aspiring to evolve into a **devops engineer**, I aim to specialize in cloud computing, infrastructure, and related fields in the future.

## TECHNICAL PROFICIENCY

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- **Programming Languages:** Python, C/C++, C#, Java, Javascript.
- **Relational Databases:** Oracle, MySQL.
- **NoSQL Databases:** Redis, MongoDB, Firebase Realtime Database.
- **Frameworks/Development packages:**
  - **Backend:** Django, ExpressJS, Spring Boot.
  - **Frontend:** React, Vue.
  - **ETL pipeline & OLAP:** Airflow, SSIS, SSAS, Excel, Power BI.
- **Operator systems/Platforms:** Linux (Ubuntu), Windows, Android.
- **Development Tools:** Git, Docker, Postman, Visual Studio Code, SSMS, HeidiSQL, Adminer, Mongo Compass, Visual Code,...
- **BaaS/Cloud Services:** Firebase.

## WORK HISTORY

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### FPT Corporation - Backend Developer (06/2022 - Present)

- Design and implement RESTful API, physical relational database and related policies.
- Construct, monitoring and operate the crontab service, distributed queue system and push notification service.
- Implement and maintain user behavior tracking workflow, ETL pipeline.

## EDUCATION

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### University of Science - VNUHCM (2020 - 2024)

Major: Information technology - Information system

## PROJECTS

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### 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, 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 **distributed 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 assists back office departments in handling personnel information, system administration, salary, and activity history tracking. It also features data management pages for customizing 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:** 5 team members / 21 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/TrongThuan>
- **Github:** <https://github.com/ntthuan060102github>