



# Trần Bình

SOFTWARE ENGINEER

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23/11/1999

Hà Nội

## About me

Dynamic and detail-oriented Back-end Developer with almost 4 years experience in micro services architecture and cloud-based solutions. Contributing to complex projects, optimizing performance, and enhancing user experiences in diverse domains such as Banking, Mental health, eCommerce and Insurance.

My skills include:

- Architecture: Monolithic, Micro Services, Serverless.
- Programming Languages: Java, Groovy, Typescript.
- Library/Frameworks: Java, Spring boot, Hibernate, Groovy on Grails, ReactJs, NextJs, RemixJS.
- Infrastructure: K8s, Docker, Zipkin, Grafana, Elasticsearch, Prometheus, Terraform, Serverless and AWS CDK.
- Source Control: Git, Github, GitLab.
- Relational Databases: MySQL, Postgres, SQL Server.
- NoSQL: MongoDB, QLDB.
- IDEs: VS Code, Vim, IntelliJ, Spring Tools Suit4.
- Operating Systems: Windows, Ubuntu, Mac OS.
- Testing Framework: Cypress, Jest, React Testing Library.
- Caching Framework: Redis.
- Continuous Delivery: Jenkins, Github action.
- Tools: Maven, NPM, Grails.

## Education

HaNoi University of Industry  
08/2017 - 01/2021 | Control and Automation Engineering Technology  
<https://vbcc.hau.edu.vn/?sc=3959a48229>

## Skill

Excellent

ReactJS

Microservices architecture

Serverless architecture

Jenkins

Docker

Github

ELK

Prometheus

Grafana

ElasticSearch

AWS

HTML

GraphQL

REST

Spring Boot

Intermediate

Spring Boot

Ruby on Rails

Kafka

AWS

CSS

REST

GraphQL

Golang

## Work Experience

02/2024 - NOW  
SOFTWARE ENGINEER | Alphaway Technology Joint Stock Company

Building motorbike insurance for Allianz with many rich features creating a great experience for users.

**PROJECT:**

**Team size:** 5

**Role:**

- Product development using monolithic architecture with groovy on rails framework integration and mirco services using Spring Boot v3.
- Build a login, registration and forgot password flow using phone number for users.
- Create portal and dashboard for admin to manage user information and related information.
- Create a chatbot to consult directly with customers via Whatapps.
- The thread sends an email to the user if any condition changes related to the user such as account creation successfully, charge successful, etc.
- Create a campaign to send messages to users on each holiday via Whatapps.
- Integrates with Gkash payment gateway to pay money.
- Database is MySQL and uses GORM, Hibernate to manage migration.

**Technologies Used:**

- **Back-end:** Java, Spring Boot, Groovy, Grails.
- **Database:** mySQL.
- **Development Tools:** Visual Studio Code, Vim, Git.

01/2024 - 02/2024

**SOFTWARE ENGINEER | Alphaway Technology Joint Stock Company**

Build an eyeglasses insurance website to help users complain about problems encountered when using eyeglasses.

**PROJECT:**

**Team size:** 5

**Role:**

- Product development using monolithic architecture with groovy on rails framework integration.
- Build a login registration flow for users using spring security.
- Add edit delete import and export user complaints by hand and excel.
- Database is MySQL and uses GORM to manage migration.
- The thread sends an email to the user if any condition changes related to the user such as account creation successfully, complaint approved, charge successful, etc.
- Integrates with Gkash payment gateway to pay money.

**Technologies Used:**

- **Back-end:** Groovy, Grails.
- **Database:** mySQL.
- **Development Tools:** Visual Studio Code, Vim, Git.

07/2023 - 12/2023

**SOFTWARE ENGINEER | Alphaway Technology Joint Stock Company**

Building an electronic wallet for a bank in Malaysia. Creating a KYC flow to assist registered users in logging into the system, verified by identifier cards or passports, and enhancing customer experience activities.

**PROJECT:**

Team size: 5

**Responsibilities:**

- Developed a microservice architecture with Kinesis as a broker, enabling seamless automated event streaming between services. Designed in accordance with Domain-Driven Design (DDD) standards, the system ensures optimal scalability, flexibility, and maintainability, enhancing overall performance and efficiency.
- Build development pipeline using github action and AWS CDK.
- Build low-code flow using n8n to authenticate users by identifier and passport.
- Create APIs to help users log in and register. User data is stored at QLDB.
- Create automated email sending pool using AWS SNS.
- Integrated Gkash for secure electronic payments, secure backend processing.

**HighLight:**

- Actively engaged in client consultations, offering solutions, facilitating discussions around backend architectures without the need for a Business Analyst.

**Technologies Used:**

- **Back-end:** Java, Typescript, AWS Lambda, AWS CDK, QLDB, AWS SNS.
- **Microservices:** Kinesis.
- **Database:** QLDB.

**Development Tools:** Visual Studio Code, STS, Vim, Git, N8n, Notion, Github.

03/2023 - 07/2023

**BACK END DEVELOPER | FPT Software**

A logistics website to manage drug purchases in many regions and countries. This website is used to manage the location of drugs being bought and sold and where they are shipped, managing import and export ports in many countries.

**PROJECT:**

- Built codebase for web applications and large-scale projects using Golang. Contributed on how to migrate for the project, how to organize the common codebase as much as possible to ensure readable, maintainable, and extensible source code.
- Define schemas, types, and resolvers for queries and mutations based on client-side application needs.
- Ensure high performance and optimize GraphQL queries to handle real-time requirements and large loads.
- Manage and optimize database queries to ensure the best application performance.
- Utilize ORM (Object-Relational Mapping) or similar tools to interact with databases easily and securely.
- Implement security mechanisms such as user authentication and API authentication. Utilize encryption and token-based systems to ensure secure data exchange between the server and client.
- Write technical documentation and API usage guides for other development teams and provide instructions for developers using the project's APIs.
- Successfully integrated the process of uploading files to Azure Blob Storage to store various data files such as images and documents from the Client side.

**Technologies Used:**

- **Back-end:** Golang, PostgreSQL, Gqlgen, Docker, GraphQL.

- Microservices: Kubernetes.
- Development Tools: Visual Studio Code, Vim, Git, Jira, Confluence.

03/2021 - 07/2023

## FULL-STACK DEVELOPER | FPT Software

Contributed to the development of an online platform providing access to licensed mental health professionals, including psychiatrists, therapists, and counselors, to support and treat various mental health conditions. To manage an increasing user base, implementation of architectural changes from a monolithic structure to a microservices architecture.

PROJECT:

Team size: 16+

Responsibilities:

- **System Architecture Overhaul:** Led the transition from a monolithic to a microservices architecture for an online mental health platform, incorporating Domain-Driven Design (DDD) for clear domain modularity. Implemented an event-driven architecture using Kafka to enhance responsiveness and system traceability. Additionally, integrated Command Query Responsibility Segregation (CQRS) to optimize read and write operations, significantly improving system scalability and performance.
- **Service Development:** Developed Auth, Prescription, and Medication Services using NestJS and Spring Boot, focusing on robust service communication and security. Applied the Saga pattern to manage transactions and maintain data consistency across distributed services, ensuring reliable execution of complex business processes. Also implemented the Circuit Breaker pattern to enhance system resilience by preventing failure cascades, allowing for graceful degradation and swift recovery in the event of service disruptions.
- **System Monitoring:** Configured Spring Boot applications for comprehensive system monitoring with ELK stack, ensuring detailed visibility and proactive management of system performance.
- **Document:** Documented all service APIs using Swagger to ensure clear, accessible API documentation, facilitating easier integration and maintenance.
- **Frontend Development:** Implemented micro frontend architecture using ReactJS and Webpack. This approach allowed for isolated development and deployment of frontend components, improving scalability and maintainability of the user interface.

Highlight:

- Best performance of year award.

Technologies Used:

- Back-end: Spring Boot, NestJS, Ruby on Rails, MySQL, MongoDB, Docker, Kubernetes.
- Front-end: React, Redux, Webpack, Bootstrap, Tailwind CSS.
- Microservices: Kafka, Kubernetes.
- Development Tools: Visual Studio Code, Vim, Git, Jira, Confluence, Slack.

10/2020 - 03/2021

## JUNIOR DEVELOPER | FPT Software

Contributed to building a custom eCommerce platform enabling users to browse and access detailed product information. Admin capabilities included managing products, prices, images, and sales metrics.

PROJECT:

Team size: 5

Role:

- Contributed to the development of a custom eCommerce platform using ExpressJS, allowing users to access detailed product information and manage sales metrics.
- Built and managed core services including Authentication, Ticketing, Ordering, and Payment systems, facilitating communication through Rabbit MQ.
- Optimized PostgreSQL database queries and implemented the ELK stack for comprehensive monitoring across distributed systems.
- Extensively used AWS services such as Elastic Kubernetes Service (EKS), Secrets Manager, S3, and Relational Database Service (RDS) to enhance the platform's functionality and security.

Highlight:

- Successfully launched the platform ahead of the scheduled deadline, achieving early market entry and enhanced customer satisfaction.

Technologies: Java, Spring Boot, PostgreSQL, AWS services.

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## Personal Project

01/2023 - NOW

Master event-driven microservices architecture with patterns using Spring boot, Spring cloud, Kafka and Elasticsearch

The microservices patterns that you will be implementing are:

- Externalized configuration with Spring Cloud Config
- CQRS with Kafka and Elastic search
- Api versioning for versioning of Rest APIs
- Service Registration and Discovery with Spring Cloud and Netflix Eureka
- Api Gateway with Spring Cloud Gateway
- Circuit breaker with Spring Cloud Gateway and Resilience4j
- Rate limiting with Spring Cloud Gateway and Redis to use Redis as the Rate limiter
- Distributed tracing with SLF4J MDC, Spring Cloud Sleuth and Zipkin
- Log aggregation with ELK stack (Elasticsearch, Logstash and Kibana)
- Client side load balancing with Spring Cloud Load Balancer
- Database per Service
- Messaging between microservices using Kafka

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## Certificate

Certified Professional Scrum Master I (PSM I) by Scrum.org

09/2022 | Scrum.org

Certificate URL: <https://www.scrum.org/certificates/820727>

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Udacity Nanodegree Program - Data Structures & Algorithms

09/2022 | Udacity

Certificate URL: <https://confirm.udacity.com/3GHPUUD2>

### Udacity Nanodegree Program - Cloud Developer

07/2022 | Udacity

Certificate URL: <https://confirm.udacity.com/A26DKJPZ>

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## Award

### Best performance of year(2022)

12/2022 | BU(Business unit) of FPT Software