DINH PHAN HUYNH

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SUMMARY

Full-stack engineer with 5 years of experience developing scalable backend services and modern web applications, with a strong focus on digital banking platforms. Experienced in building cloud-native microservices using AWS serverless technologies, enabling scalable and reliable backend systems.

Hands-on experience integrating internal and third-party services through API gateway platforms, and delivering end-to-end product development from design and implementation to deployment and production operation. Familiar with operating systems in production environments, including monitoring, troubleshooting, and resolving incidents using observability tools such as Datadog

HIGHLIGHTED EXPRERIENCE

09/2023 – 03/2026: Datum Consulting

PROJECT: Gitlab-Github Migration
Building and implementing end-to-end pipeline leveraging n8n to orchestrate migration steps, combined with Python and Node.js (TypeScript) services to transfer over 1,400 repositories from Gitlab to Github

Responsibilities

- Designed workflows in n8n to orchestrate multi-step repository migration
- Developed Python scripts for processing and Git operations
- Implemented Node.js (TypeScript) services for API integration (GitLab & GitHub)
- Integrated AWS S3 for temporary storage, logging, and checkpointing
- Built retry and failure-handling mechanisms for high reliability at scale

Tech stacks: N8N, Python, NodeTs, AWS S3, Github API, Gitlab API.

SKILLS

Technical

Languages: Java, Python, JavaScript

Framework: Java Spring boot, React-Ts, Angular, Serverless

Database: MySQL, DynamoDB

Cloud: AWS (EC2, ECS, APIGW, Lambda, SQS, EB)

Cache: Redis

Stream: Kafka, AWS SQS

Tools & Monitoring

Docker, Cloudflare, CloudWatch, Datadog, Grafana, GIT, Jira, Figma, Confluence

Business Domain

Digital banking

Insurance

Marketplace

EDUCATION

HCMC UNIVERSITY OF TECHNOLOGY: 2015-2019

Project Outcome

- Successfully migrated 1,400+ repositories with ~100% data integrity
- Reduced manual migration effort by 90%+ through automation
- Improved migration speed by 3–5x using parallel execution strategies
- Enabled fault-tolerant migration with resume capability (no restart needed)
- Delivered clear tracking/logging for audit and validation

PROJECT: Market Place

An application in Banking System where users are able to onboard and buy digital products. (Ex: Voucher, Insurance, Data, Electricity...)

Responsibilities

- Clarify business requirements with the team in the planning phase
- Participated in high-level system design
- Set up the integration Api gateway with 3rd party
- Pair working with the 3rd party's team to implement the E2E feature
- Developing Api for services using Java and Python
- Migrate the database from MySQL to Aurora RDS
- Planning and Reporting to be ready to deploy to Production
- Supporting, monitoring and assisting with customer issues

Tech stacks: Java Spring Boot, React-Ts, MySQL, ECS, Lambda, DynamoDB, CloudFormation.

Project Outcome

- Successfully launched the Marketplace module within the Tyme X Banking ecosystem.
- Achieved 100% successful migration from MySQL to Amazon Aurora RDS, improving database performance, scalability.
- Enhanced system observability through monitoring and logging solutions.
- Deployed a resilient microservices architecture on AWS ECS, increasing system availability and supporting high transaction volumes.

PROJECT: Savings

Building services that support the internal banking office. Specific manual payment posting.

Responsibilities

- Clarify the requirement and documentation
- Participated in high-level system design
- Developing Java API Services
- Implement tracking and auditing with Kafka
- Collaborate with other teams to develop a feature
- Deliver consistency and security in banking services
- Demonstrating to PO and Stack holders

Tech stacks: AWS Step functions, Lambda, DynamoDB, Serverless, Datadog, EC2

Project Outcome

- Automated and auditable payment posting workflows, reducing manual workload for operations teams.
- Improved data consistency and transaction reliability across banking services.
- Enhanced collaboration between engineering, product, and business teams through clear documentation and regular demonstrations.
- Understanding secure and compliant architecture, aligning with banking standards.

PROJECT: Ship Connect

Designed and developed a scalable integration platform that enables seamless connectivity between e-commerce systems and multiple shipping providers. The platform acts as a middleware layer, allowing businesses to automate order fulfillment, shipping rate calculation, tracking, and status synchronization in real time.

Responsibilities

- Designed RESTful APIs to integrate e-commerce platforms with shipping carriers
- Built serverless backend services using Python on AWS Lambda
- Developed a responsive admin dashboard using Next.js (TypeScript)
- Optimized performance and cost using DynamoDB and serverless best practices

Tech stacks: Serverless framework, Python, NextTS, AWS Lambda, AWS API Gateway, DynamoDb .

Project Outcome

- Achieved high scalability, handling thousands of requests with low latency using serverless architecture
- Enabled integration with multiple shipping providers through a unified API layer

- Improved order processing speed and real-time tracking visibility
- Lowered infrastructure costs by adopting AWS serverless services (Lambda, API Gateway, DynamoDB)
- Delivered a flexible and extensible platform that supports onboarding new partners quickly

07/2021 – 06/2023: UNIT CORPORATION

PROJECT: 5PM

Microservice-based web application that provides multiple functions for an enterprise, including:

- Managing and Tracking Contract
- Debt Management
- Human Resources Management & Integration
- Check-in – Check-out Management
- Corporation's revenue Monitoring dashboard

Responsibilities

- Support the technical leader by analyzing requirements
- Init service infrastructure
- Implementing Api for services using Java
- Implemented UI web app using ReactJS
- Maintaining and monitoring performance services

Tech stacks: Java Spring Boot, NodeJS, ReactJS, Nginx, MySQL, Redis.

Project Outcome

- Successfully implemented microservice architecture to enhance system modularity and performance.
- Improved efficiency in contract and debt management processes through automated workflows and data integration.
- Enabled real-time tracking and visualization of corporate performance via an interactive dashboard.
- Delivered a stable and scalable enterprise web platform.

PROJECT: Insurance Website Portal

Building a web application that supports for agency and customers, which provides below features:

- Update messages and news in the organization
- View and follow up status of contracts.
- Visualize Organization Chart
- Reminder service
- Agency's Revenue Reporting

Responsibilities

- Built services to coordinate existing data from other systems.
- Developed a logging Api to track users' behavior.
- Established service to handle and respond to insurance contract data.
- Built an admin page for configuring Notification Messages.
- Implemented admin page using ReactJS, Material UI.
- Built a reporting service and visualized a chart.

Tech stacks: Java Spring Boot, JPA, React JS, MS SQL.

Project Outcome

- Successfully delivered a centralized insurance portal.
- Enabled real-time contract tracking, organizational updates, and performance visualization.
- Improved internal communication through message and notification management, and enhanced decision-making with automated revenue and reporting dashboards.

07/2020 - 07/2021: FPT Software

PROJECT: The Digital Well Operation

A multi-functional web application that facilitates well engineers, technicians and field supervisors to plan, coordinate, and monitor well status and operations during
well execution

Responsibilities

- Developed layout and functions for front-end using Angular, React
- Implemented WOM – WAP service
- Troubleshot and resolved issues for both front-end and backend
- Demonstrated functionality to stakeholders

Tech stacks: Java Spring Boot, JPA, .NET Core, Entity Framework, NodeJS, Angular 8, SQL Server, Kafka, KEYCLOAK

Project Outcome

- Delivered a comprehensive digital platform that streamlined oil well operation management
- The system improved collaboration across teams, reduced manual tracking errors, and increased operational efficiency through automated workflows and centralized data visualization.