Tuan, Vu Anh

Software Engineer | Backend Developer | Java
Developer

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Summary

— Experienced backend developer skilled in Java, Node.js, and Python, delivering efficient, high-quality solutions tailored to client and end-user needs across diverse domains and tech stacks.

— Self-motivated, adaptable, and collaborative with strong problem-solving, communication skills, and a passion for continuous learning and delivering exceptional results on time and within budget.

Experience

⊞ FPT Software   (2024 - Present)

Team Lead — IExams - Singapore Ministry of Education   Oct 2024 - Present

Leading backend development for the Ministry of Education's nationwide examination management system, covering end-to-end feature delivery, system stability, and team performance.

Responsibilities:

Lead a backend team of 4 engineers: assign tasks, mentor members, conduct weekly and monthly performance reviews, and report progress directly to the Project Manager.

- Design, build, and enhance multiple microservices using Spring Boot, Spring Batch, Kafka, and MsSQL, ensuring reliability and performance across mission-critical workflows.
- Work closely with Business Analysts to clarify Service Requests (SR), Change Requests (CR), and incident reports, ensuring accurate and timely delivery following Agile/Scrum processes.
- Oversee infrastructure health and CI/CD pipelines on AWS, including CloudWatch, Jenkins, and logging/monitoring stacks.
- Contribute to overall system architecture discussions and guide the team in adopting coding best practices and clean code standards.

Software Engineer — STE - Singapore Water management System   May 2024 - Oct 2024

Participated in a large-scale migration project where the legacy Spring MVC + JSP system was rebuilt using a custom Node.js framework developed by the client.

Responsibilities:

- Migrated and refactored legacy Spring MVC modules into Spring Boot services for a large-scale system modernization.
- Maintained and enhanced all Java services required due to Node.js framework limitations, especially modules using MSSQL stored procedures and triggers.
- Developed a shared Java common library reused across services to standardize utilities and reduce duplication.
- Collaborated with the Node.js team to integrate Java services with the client's custom framework and resolve cross-system issues.
- Supported development of additional features after completing Java migration tasks.

⊞ VMO Holdings   (2022 - May 2024)

Senior Software Engineer — Indonesia Ringkas Housing Loan   Sep 2023 - May 2024

Developed, enhanced, and maintained features throughout the entire backend of version 1 of the CRM housing loan system.

Responsibilities:

- Develop, enhance, and maintain multiple backend services in a microservices system using Spring WebFlux, Spring Boot, OpenAPI, Kafka, R2DBC, PostgreSQL, and Keycloak, involving some frontend tasks using React.js.
- Work closely with in-house teams for clearing PRD/URD, using Notion with Agile principles to manage tasks in stages.
- Work directly to clear technical issues when integrating with stakeholders like BTN (National Saving Bank of Indonesia), Whatsapp, Infobip (Messaging Service Provider).
- Monitor the infrastructure of development, sandbox, and production environments including Kubernetes, Rancher, ELK, etc. on AWS EC2.
- Control the full flow of CI/CD when deploying from the development environment to the production environment using GitLab CI with GitLab flow.

Senior Software Engineer — Hong Kong P2C   Jul 2022 - Aug 2023

Developed, enhanced, and maintained multiple sub-system projects for the PCCW (Hong Kong) client as an outsourced Java developer.

Responsibilities:

- Actively communicated with the in-house development team to clarify project requirements and design specifications, as well as to catch up on tasks during daily stand-up meetings.

- Developed new REST APIs and converted SOAP services to REST APIs using Java 6 and related technologies like Spring, Struts 2, JSP, and utilized SQL Server for database management.
- Mentored 2 team members, guided them on working with clients, workflow (coding and GitFlow), reviewed documents and source code, and estimated and divided project tasks among team members.

🏢 Enterprise Nao   (2018 - 2022)

Team Lead — Vietinbank E-Fast Business Customers Banking Service   Jul 2021 - Jun 2022

Rebuilt Vietinbank's business customer banking service into microservices as an outsourced Java developer.

Responsibilities:

- Led a team with 6 backend members, mentored team members to review each other, and resolve conflicts.
- Collaborated with the in-house development team to understand project requirements and design specifications.
- Built infrastructure for development and UAT environments including Kubernetes, Rancher, ELK, Prometheus, etc. according to Vietinbank's running system documents.
- Developed microservices for the banking service using Java 11 and related technologies such as Spring Boot 2, Hibernate, Jasper Report, Oracle DB (with PL/SQL).
- The developed product won the Golden Star (Sao Khue) Award.

Team Lead — Vietinbank E-Connect   Jun 2021 - Mar 2022

Worked as an outsourced Java developer and built a Vietinbank system that supported connections from other systems like Misa ERP, Grab, etc. to core banking.

Responsibilities:

- Led a team with 3 backend members, reviewed team members' code, estimated project tasks, and effectively divided them among team members.
- Collaborated with the in-house development team to understand project requirements and design specifications.
- Built infrastructure for development and UAT environments including Kubernetes, Rancher, ELK, Prometheus, etc. according to Vietinbank's running system documents.
- Developed REST API services using Java 11 and related technologies such as Spring Boot 2, Jasper Report, Hibernate, and Oracle DB.

Team Lead — National Population Database   Mar 2020 - Jul 2021

Designed and built the National Population Database project under the Ministry of Public Security as an outsourced developer.

Responsibilities:

- Led a team with 3 members, developed integration services using Java and related technologies such as OSB, WebLogic, and Oracle DB.
- Worked closely with in-house teams (PO, PM, SA, DEV) to grasp the key needs and technical details of the product.
- Built development environment infrastructure on-premise: CentOS 7, Oracle DB, WebLogic clustering, and CD manually using Bash/Shell and Batch.
- Participated in developing backend services for managing population data using Spring Boot and Oracle DB.
- Supported direct connections from LGSP (Local Government Service Platform) and NGSP (National Government Service Platform) to the developed services.

Software Engineer — ATM Transactions Fraud Detection   Aug 2019 - Mar 2020

Designed and built a real-time fraud detection system for ATM transactions, resulting in a significant reduction in fraudulent activity.

Responsibilities:

- Implemented ML algorithms and tools such as Tibco Statistica, Tibco Data Science, Pandas, Scikit-learn, and Tree-based algorithms using Python to load data from Oracle DB for cleansing, enriching, and training models.
- Deployed the trained model with ~29% true positives (actual fraudulent activity) and ~25% false negatives (actual non-fraudulent notifications) results using Spring Boot and Kafka with two main streams, one for the training cycle and one for detection.

Software Engineer — In-house Device Management System   Nov 2018 - Aug 2019

Collaborated with a startup to build an IoT application for managing the status of various in-house devices (such as those in buildings, malls, and stores).

Responsibilities:

- Customized and configured Thingsboard CE (Community Edition) features and deployed using Docker.
- Developed simulator tools using Java and MQTT for pushing real-time data continuously to Thingsboard.
- Used Git as the source control system and Trello for task management.

Software Engineer — Scraping User Data   Jan 2018 - Oct 2018

Built a Java-based company product that scrapes types of data from various sources, including social media platforms, websites, and search engines.

Responsibilities:

- Implemented scraping tools and libraries such as Selenium with headless Chrome, Facebook GraphAPI, etc. to collect data from real estate and car-selling websites, streaming large amounts of data using Apache Storm and storing it in Cassandra.
- Applied techniques like IP rotation, human interaction simulation, and discovery of data allowed in robots.txt to avoid blocking while scraping.
- Used SVN as the source control system and Trello for task management.

Skills

Java: Advanced

Docker: Advanced

Git: Advanced

Python: Mid-level

AI/ML: Mid-level

Spring: Advanced

K8s: Advanced

Kafka: Mid-level

JS: Mid-level

Data Processing: Mid-level

OracleDB: Advanced

REST & SOAP: Advanced

OSB/ESB: Mid-level

WebLogic: Mid-level

SVN: Mid-level

Education

Sep 2015 - Jul 2018
Hanoi Vocational College of Technology (Higher Diploma)
- GPA: 8.4/10 overall
- #1 score in graduation project of the Information Technology department
- Teaching assistant for subjects such as OOP, DSA, Java

Certifications

Jun 2024
SQL (Advanced) Certificate - Hackerrank

May 2024
Rapid Developer Certification (ID: 74513) - Mendix

Sep 2020
Problem Solving (Basic) Certificate - Hackerrank