

KHANH NGUYEN

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Full Stack Java Developer

Full Stack Java Developer with **9+ years** building scalable, responsive, and user-friendly web apps (**Angular, React**) using **Agile methodologies**. Expertise in **Java, Spring Boot, Angular, React, Docker, Kubernetes, OpenShift, Jenkins, AWS**, and a broad range of technologies. Adept at designing **RESTful APIs**, implementing **microservices architecture**, and deploying containerized solutions using **CI/CD pipelines**.

Pair Programming • Object Oriented Programming • Design Patterns • Dependency Injection
SOLID Programming Principle • Microservices Architecture • ACID Properties • CI/CD

Languages: Java, JavaScript, TypeScript, SQL

Web: HTML, CSS, Bootstrap, Material UI

Web Services: Microservices, REST, SOAP, JSON, JWT

Web/App Servers: Apache Tomcat, nginx

Frameworks/Libraries: Spring (Web, Boot, Data, Security, Integration, Cloud), Hibernate, JMS, ActiveMQ, Kafka, Nodejs, Angular, RxJS, Redux, React, Junit, Mockito, Swagger

Databases: MSSQL, PostgreSQL, Oracle DB, MongoDB

Design Patterns: Singleton, Builder, Facade, Template method, Decorator, Observer

SDLC: Agile (Scrum)

Tools: Maven, NPM, StartUML, Postman

Platforms: MacOS, Windows, Linux

Big Data: Hadoop, Spark, Hive, Pig, HBase, Sqoop, Flume

Application/Software: Jenkins, Docker, Kubernetes, OpenShift, Helm, WOS2

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

MESONEER • 04/2020 – 07/2023

A Swiss software solutions company.

Senior Software Engineer (04/2020 – 07/2023)

- Designed and developed responsive Single Page Web Applications (**SPA**) for banking solutions using **Angular, Java**, and **Spring Boot**, leading to a 20% increase in account registrations.
- Built an Auto Identification and E-Signing responsive SPA, enhancing efficiency, and **reducing manual verification by 80%**.
- Developed a Simple Broker Solutions web application using **Angular, Spring Boot, Spring Webflux**, allowing brokers to onboard new applicants efficiently, increasing the revenue.
- Implemented **Single Sign-On (SSO)** support using **Oauth2/OpenID Connect** for BackOffice applications, integrating with Keycloak for authentication and authorization.
- Collaborated with cross-functional teams to integrate **backend services** with front-end applications, ensuring system **performance, reliability, and scalability**.
- Managed deployments on **AWS** using **Docker** for containerization, **OpenShift** for orchestration, and **Helm** for packaging, improving delivery efficiency.
- Developed a **real-time monitoring and alerting** system using **Prometheus**, improving system uptime and reducing downtime.
- Implemented an **automation testing project** using Robot Framework, **detecting 50% more bugs before production**.
- Built and maintained **CI/CD pipelines** using **Jenkins**, reducing deployment times by 45% through automation.
- Conducted **code reviews** to ensure adherence to **coding standards** and **best practices**, achieving a 15% reduction in bug reports and improving software quality.

Technologies Used: Java, Spring (Web, Boot, Data JPA, Webflux Security), Hibernate, OpenAPI Specification (OAS), Swagger, Angular, Junit, nginx, Jenkins, EC2, OpenShift, Helm, Robot Framework, LDAP, OAuth2, OIDC

SWISS POST SOLUTIONS • 06/2018 – 04/2020

A Swiss software solutions company.

Software Engineer

- Built **microservices** for a Central Document Input Processing Platform utilizing **Spring Cloud**, **Kafka**, **AWS SDK**, **S3**, **MongoDB**, and **Logstash**. Automated the capture of invoices and receipts data for market analysis, handling **10,000+ daily cases**.
- Optimized **PostgreSQL** database queries and implemented Hazelcast caching, boosting platform performance by 10%.
- Developed deployment manifests for containerized applications using **Docker** and **Kubernetes**, optimizing for high availability and scalability.
- Implemented an Enterprise Service Bus using WSO2 ESB for separating service lines, integrating, and transforming data that are required to have high Service-Level Agreement (SLA), as a result the SLA was committed.
- Established real-time **monitoring** and **logging** with the **ELK stack**, reducing troubleshooting time by 40%.

Technologies Used: Java, Spring (Web, Boot, Data JPA, Security, Integration, Cloud), Hibernate, JMS, Kafka, Elastic Stack (ELK), JUnit, WSO2 products, PostgreSQL, MongoDB, Angular, nginx, Kubernetes, Amazon EC2, Amazon S3

TMA SOLUTIONS • 05/2014 – 06/2018

A software solutions company.

Senior Software Engineer

- Modernized a legacy Wealth Management Administration platform called **GBST's Composer** utilizing **React.js**, **Spring Boot** and **Hibernate**. Recognized for this achievement with a **TMA Star Performer Award** (Q2 2016).
- Selected for a prestigious **onsite training program in Sydney, Australia**. Shared learnings with team members, resulting in a 20% increase in team efficiency and a 15% improvement in project delivery times.
- Developed a Bulk Investor Import feature using Spring Batch, increasing client revenue potential by 15%.
- Achieved 85% test coverage using **JUnit**, **Mockito**, and implemented BDD with **Cucumber**, significantly reducing critical bugs.

Technologies Used: Java, Spring (Web, Boot, Data JPA, Security, Batch), Hibernate, MSSQL, Junit, Mockito, React.js, GWT, Junit, TDD Testing with Cucumber

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2026)

Maharishi International University, Fairfield, Iowa

Key Courses: Software Architecture • Algorithm • Artificial Intelligent • Big Data Technologies

Bachelor's degree in Information Technology

Vo Truong Toan University, Hau Giang, Hau Giang, Vietnam (10/2014)

CERTIFICATIONS

[AWS Certified Solutions Architect – Associate](#)