**ETHAN NGUYEN**

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**FULL STACK JAVA ENGINEER**

AWS-certified full-stack developer with 10+ years of expertise in traditional/stateful and single-page application development, excelling in both building new applications and modernizing legacy applications through cutting-edge frameworks and cloud technologies. Hands on experience in designing, building, and migrating a variety of financial systems, including insurance backend systems, banking products, and credit scoring solutions. Experienced in Java & Spring Framework ecosystem, EBS with Camel, Microservices utilizing Spring Cloud, extensive experience in Public Cloud adoption and architecture with AWS and Azure, proficiency in Big Data/ML platforms including Databricks and AWS SageMaker, and UI development expertise with AngularJS, Angular, and React.

API Development **•**  Application Design & Migration **•**  Cloud Computing Platforms (AWS & Azure) **•** OAuth2

Automation and CI/CD **•**  Big Data and Data Pipelines **•** Databricks **•** OOP & SOLID principles

**Languages:** Java, Python, JavaScript, Terraform HCL

**Web:** HTML5, Bootstrap CSS, jQuery, ES6, TypeScript

**Web Services:** REST, SOAP

**Web/App Servers:** Tomcat, Nginx, Apache, Red Hat JBoss Fuse, IBM WebSphere  
**Frameworks:** AWS, Azure, Spring Framework and SpringBoot, ESB and EIP with Apache Camel, PySpark, AngularJS (2014), Angular (2017), React(2023)

**Databases:** MySQL, Oracle, PostgreSQL, MongoDB, Azure CosmosDB, AWS DynamoDB

**Design Patterns**: Singleton, Builder, Observer, Proxy, Template

**SDLC**: Agile / Scrum  
**Tools:** maven, npm, git, ssh, pip, awscli, azurecli, curl, Eclipse, VSCode, InteliJ, Docker, Postman, Terraform, Jenkins, Azure DevOps, Jira, Confluence, Veracode, Sonarqube, Dynatrace, JMX, ActiveMQ, Kafka, Linux  
**Platforms:** AWS, Azure, Kubenetes (AWS EKS), APIGEE, Pivotal Cloud Foundry, Red Hat OpenShift

**Big Data:** PySpark, Azure Datarbricks, Azure Data Pipeline, AWS SageMaker ML

**Application/Software:** AWS, Azure, Kubernetes (AWS EKS), APIGEE, Databricks, Dynatrace, Splunk, Pivotal Cloud Foundry, Red Hat OpenShift, Veracode, SonarQube, JMeter

**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).*

**EXPERIAN SINGAPORE, Singapore • 10/2019 – 05/2023**

Multinational data analytics and consumer credit reporting company.

**Senior Full Stack Engineer**

Designed and built APIs, cloud applications, data pipelines, and automation for credit scoring solutions using alternate data to drive better financial inclusion.

* Developed multiple APIs application (SOAP + REST) with configurable API workflow using Spring Boot 2, Spring Cloud and Apache Camel to enable product customization by the delivery team, drastically reducing the time to market.
* Provisioned infrastructure-as-code with Terraform and Jenkins to automate Azure Databricks workspace provisioning, centralized data access control with Unity Catalog.
* Created data pipelines to ingest data from on-prem environment to Data Lake in the cloud, allowing Data Scientist team in conducting analysis, feature engineering, and model training with big data formats, significantly improving their efficiency.
* Created CI/CD pipelines with Azure DevOps & Jenkins to automate software delivery across diverse runtime environments including on-premises, containers, and serverless platforms.
* Deployed Machine Learning model using AWS SageMaker & Azure Databricks, migration of Jupyter Notebooks; enabling the real-time ML model inference.
* Performed APIGEE configuration to expose client-facing APIs according to company’s Cybersecurity practices.

***Technologies Used:*** *Java, Spring, Spring Boot, Spring Cloud, Apache Camel, Terraform, AWS EKS, AWS Lambda, Azure WebApp, Azure Function, Azure DevOps, PySpark, Python, Jupyter Notebook, Azure Databricks, Azure Data Pipeline, APIGEE, Dynatrace, JMX, Splunk, Veracode*

**DBS BANK, Singapore • 04/2017 – 10/2019**

Singaporean multinational banking and financial services corporation.

**Senior Associate/Full Stack Developer/Cloud Engineer**

Built internal & external banking products, designed, and implemented cloud-native solutions.

* Analyzed the legacy banking web application, defined, and implemented integration strategy to allow secured communication from a nested SPA inside existing J2EE container with a new set of stateless Microservices.
* Implemented UI screens based on redefined UX strategy & template, enabling customers to deposit money to purchase pre-built ETF portfolios (robo-advisor)
* Performed project scaffolding including authentication/authorization framework, batch jobs, PaaS and cloud-native components and services to facilitate software development for team members.
* Designed scalable application architecture, developed end-to-end solutions, built APIs and UI based on continuous user feedback. Presenting multiple solutions and options to identify a well-balanced solution and user journeys.
* Provided support for AWS solutions and initiatives by implementing proof-of-concepts (POCs), advocating for application teams, and promoting cloud-native and Agile application development practices.

***Technologies Used:*** *AWS, Java, Spring Framework, Spring Boot 1, Spring Security with JWT, JPA Hibernate, MariaDB (MySQL), Pivotal Cloud Foundry, Typescript, Angular 2/6, Kendo UI, Boostrap 4*

**SCIENTE CONSULTING, Aviva Singapore, Singapore • 04/2016 – 04/2017**

Insurance company.

**Java Software Engineer/Application Analyst**

Developed insurance portal product.

* Developed UI screens, APIs, and performed integrations to introduce new features for the FPI insurance portal (acquired by Aviva), catering to external customers and insurance agents.
* Constructed a high-performance RESTful WS router (ESB) using Apache Camel and a message broker, facilitating FPI customers and advisors to execute real-time Fund Switching and Premium Redirection transactions to a remote vendor's system via SOAP Web Services.
* Designed and created job scheduler with Spring 3 frameworks & Quartz2 to automate data reconciliation tasks.
* Conducted performance and functional testing using predefined scenarios through JMeters/BlazeMeter. Identified the root cause and implemented fixes for existing performance issues.

***Technologies Used:*** *Java, Spring MVC 3, Quarzt2, Hibernate, Oracle, Apache Camel, OSGi container, JBoss Fuse, AngularJS*

**SAI DIGITAL, Ho Chi Minh, Vietnam • 10/2014 – 03/2016**

A SAP gold partner & staffing company.

**Senior Software Engineer - Tech Lead**

Designed, built, and migrated legacy web-based insurance products to modern frameworks.

* Revamped and modernized legacy multi-page web applications (Java 1.4) by integrating backend RESTful web services with Spring MVC. Developed the UI application using AngularJS to transition to a single-page application and enhance user experience.
* Developed a backend APIs utilizing Jersey 2, JWT & integrated with Google Cloud Messaging service to facilitate mobile application notification.
* Created a bridge application utilizing VBA macros and formulas to delegate computation tasks to existing Excel files/templates, specifically for car insurance premium calculations.

***Technologies Used:*** *Java 1.4 to Java 1.6, Tomcat 5 to Tomcat 6+, Servlet and JSP, Spring Framework, Jersey web, AngularJS, single-page application, JQuery/Ajax/Promise API, Bootstrap CSS, SQL Server, MySQL, Tomcat, Maven, etc.*

**DXC TECHNOLOGY (formerly CSC), Ho Chi Minh, Vietnam • 04/2012 – 08/2014**

American multinational information technology services and consulting company.

**Software Engineer**

Built web application, supported legacy systems.

* Contributed to the JavaScript SDK to streamline the development and customization of new workflows and user interfaces for various clients.
* Developed UI screens and APIs for Etiqa Insurance (Maybank Group) utilizing AngularJS and the Spring Framework.
* Implemented life insurance product models for Tokio Marine Life Insurance using VP/MS, a company proprietary product.
* Investigated & provided solutions (JSP/servlet implementation) to business incidents raised by insurance agent.

***Technologies Used:*** *Spring framework, AngularJS, single-page application, Jquery/Ajax/Promise API, Bootstrap CSS, MySQL, CentOS, AWS, nginx, Tomcat, Maven, npm, gulp, grunt.*

**ACADEMIC PROJECT**

**Maharishi International University (2023)** **Resort management system:**

Utilized Spring Boot 3, Spring Security 6, Azure App Service, Azure DevOps

<https://dev.azure.com/huytoannguyen/_git/rms-api>

**PERSONAL PROJECT**

**Co-Founder 2014:** Point of Sale application built in 2014 and has gone through a major revamp and still going strong today. Utilized Java, Spring Framework, AWS, AngularJS (2014), Angular (2020)

<https://posonline.today>

**EDUCATION**

**Master of Science in Computer Science**

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

Maharishi International University, Fairfield, Iowa

*Key Courses: Algorithm, Enterprise Architecture, Software Architecture, Web Application Architecture, Cloud computing*

**Bachelor of Engineering in Information System**

University of Information Technology - VNUHCM, Ho Chi Minh City, Vietnam

*Key Courses: Data structure & algorithms, Discrete math, Statistics, Linear algebra, Calculus I & II.*

**CERTIFICATIONS**

AWS Certified Machine Learning – Specialty (July 2020)

AWS Certified Security – Specialty (Jul 2019)AWS Certified Big Data – Specialty (Jun 2019)AWS Certified Solutions Architect - Professional (Dec 2018)AWS Certified SysOps Administrator - Associate (March 2018)

AWS Certified Developer - Associate (March 2018)

AWS Certified Solutions Architect - Associate (March 2017)OCJP 6 (2013)