Johnathan Khoa Nguyen

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SUMMARY

- ❖ 7 years experience working as a **Full Stack Java Web Developer**; proficiency in implementing **RESTful** services using **Spring MVC, Spring Boot, Spring AOP, Hibernate,** and **JPA standard**.
- ❖ Knowledgeable in **Java OOP** concepts: **Abstraction, Encapsulation, Inheritance,** and **Polymorphism**; well versed in **Java SE** libraries: **Collections, Multi-threading,** and **Exception handling**.
- ❖ Proficiency in **Java 8** features such as **Stream API, Lambda Expressions, Optional,** and **Functional Interfaces**.
- ❖ Well informed with **Spring Security,** utilizing **JWT** for client **authentication** and **authorization**.
- ❖ Efficiency in designing web services with **Microservice** architecture using **Spring Cloud** technologies: **Eureka, Gateway, Feign client,** and **RabbitMQ** for messaging.
- ❖ Experienced in connecting Relational databases **(MySQL, Amazon RDS)** to Java using **Spring Data, JPA standard, Hibernate,** and **JDBC,** as well as **AWS S3** for file storage; additional experience in connecting non-relational databases **(MongoDB)** to Java using Spring Data and **MongoRepository.**
- ❖ Skilled in creating dynamic frontend pages with **JavaScript**, **TypeScript**, and **HTML**.
- ❖ Proficient in building **Angular** and **React** web applications with **Components**, **Modules**, **Services**, **Observables**, **Template/Reactive forms**, and **Routers**.
- ❖ Utilized **Cypress** for frontend browser testing and debugging, **JUnit** and **Mockito** for backend unit testing, as well as **Postman** for verifying endpoint behavior.
- ❖ Knowledgeable in using **Git** for version control and **GitHub** for repository collaboration.
- ❖ Experienced with **Jira/Confluence** for team collaboration, project management, and task tracking.

SKILLS

Languages	**Java 8, JavaScript ES5/ES6, TypeScript, Python, SQL**
Back-end	**Spring MVC, Spring Boot, Spring AOP, Spring Data, Hibernate, J2EE, JDBC, RESTful Web Services, JSP, Tomcat, Apache**
Front-End	**Angular 2+, TypeScript, React, JavaScript, HTML, CSS, NextJS, Retool, Builder.io, Vercel**
Database	**MySQL, MongoDB**
Web Service	**AWS EC2, Elastic Beanstalk, S3, RDS, MongoDB Atlas, Docker, Kubernetes**
Messaging	**RabbitMQ, Kafka**
Spring Cloud	**Microservices, Eureka, Feign Client, Gateway**
Spring Security	**JWT, Single Sign-on**
Testing	**Autosys, Cypress, JaCoCo, JUnit, Mockito,**

	Postman
Tools	**Apache Maven, Confluence, Git, GitHub, Teamforge, Eclipse, IntelliJ, Jenkins, Jira, Visual Studio Code**

EXPERIENCE

Freddie Mac (Java Developer / Full Stack)   *McLean, VA*
April 2023 - Present

Description:

Freddie Mac is the Federal Home Loan Mortgage Corporation, a government-sponsored enterprise. Designed to support homeownership for middle-income Americans, Freddie Mac buys loans from mortgage lenders, then combines them and sells them as mortgage-backed securities. My team is currently responsible for upgrading applications used by Freddie Mac business teams and employees. I worked on analyzing architecture of applications, building environments, and connecting new systems to existing servers, web applications and databases. I performed code analysis and remediation, and managed deployment to development and production environments.

Responsibilities:

❖ Collaborate, actively contribute ideas, and support colleagues under a team environment.
❖ Working alongside a team of 11 (line manager, tech leads, developers).
❖ Ability to quickly learn various software development tools and practices.
❖ Remediate and upgrade server based on security vulnerabilities, physical hardware and software requirements.
❖ Perform analysis on internal server infrastructure and its connections to existing interfaces, applications, databases, and web platforms.
❖ Smoke test current application and perform development testing on related GUIs, batch jobs, and databases.
❖ Build out a new server with upgrades based on scope requirements.
❖ Perform code changes for any code defects or broken functionality.
❖ Used **Teamforge**, **Bitbucket**, and **Jenkins** to manage code changes and deploy to both development and production environments.
❖ Upgraded **Python** version from 2.3 to 3.10. Modified code to handle string encoding based on the version changes.
❖ Upgraded middleware server from **RHEL** 7.9 to 8.9, **Tomcat** 9.0.73 to 9.0.83, **Apache** 2.4.53 to 2.4.57.
❖ Upgraded server with **DB2** client from 10.5 to 11.5 and remediated **SSL** port connection to internal and external facing applications.
❖ Enhanced application that utilizes **Java 8** and **Spring Framework** features for back end, **Angular** for front end, and **SQL** for the database. Modified Java code to repair broken functionality when making connection to **LDAP** servers.
❖ Used **Autosys** to control batch job execution and validate job functionality.

- ❖ Identified connections and created requests to designated teams for **SSH** keys, **CyberArk** mappings, **Firewalls**, **PING urls**, and **Keychain** access.
- ❖ Utilized **Jira/Confluence** for knowledge transfer, project management and task tracking.

Environment: Java 17, Spring Boot, Maven, MySQL, Linux, Python, Jenkins, IntelliJ, Git, GitHub, Cypress, Postman, JUnit, Mockito, HTML, Angular/TypeScript, Jira

Beaconfire Inc (Java Developer)   *East Windsor, NJ*
June 2019 - March 2023

Description:

Beaconfire Solutions is a leading Technology Solution and Professional Services organization.They offer innovative full-scale integrated information technology and software services to the clients nationwide. The company services the IT needs of its clients in application development, systems design, database administration and management, architecture services, project management, business analysis and quality assurance across various industry domains.

Responsibilities:
- ❖ Assisted in the development of company websites that utilized **Java 8,** and **Spring Framework**, and **Angular**, while following the company's pre-existing microservice architecture procedures for reliable rapid development.
- ❖ Helped define and implement the fixed schema of relational objects to correctly store data into **MySQL**.
- ❖ Mapped the Java domain entities to the database using **Spring Data**, **JPA**, and **Hibernate**.
- ❖ Utilized **Spring MVC** annotations such as **@GetMapping**, **@PostMapping**, and **@PutMapping** to define core application functionality.
- ❖ Improved frontend presentation using **Angular Material**.
- ❖ Generated browser tests and debugged Angular component behavior using **Cypress**.
- ❖ Provided code coverage and unit testing using **Mockito API** to create mock objects and **JUnit** framework for executing automated tests.
- ❖ Checked endpoints to validate functionally and responses using **Postman**.
- ❖ Used **GitHub** to store, track, and manage code throughout the development lifecycle.
- ❖ Collaborated with others and tracked tasks using **Jira**/**Confluence**

Environment: Java 1.8, Spring Boot, Maven, MySQL, Hibernate, Spring Data, IntelliJ, Git, GitHub, Cypress, Postman, JUnit, Mockito, HTML, Angular/TypeScript, Jira

Atlas Shippers International (Java Developer)   *Rancho Cucamonga, CA*
February 2017 - May 2019

Description:

Atlas is an international shipping company that provides door-to-door shipping services to the Philippines. My team was responsible for improving the backend services that allowed employees and customers to track and manage package information. I worked on improving the shipping and tracking service.

Responsibilities:

❖ Used **Java 8**, **Spring Framework**, **Tomcat**, and **Maven** to improve an existing monolithic application.

❖ Utilized **Spring Framework** features such as **Spring MVC** and **Spring Boot** to create the backend server-application.

❖ Created a dynamic user-interface using **JSP**, **Bootstrap**, and **JavaScript**.

❖ Helped rewrite service entities which utilize **Spring Data, JPA Repository,** and **Hibernate** in order to map java objects to relational database schema and communicate with **MySQL**.

❖ Implemented **Spring Transactions** via **@Transactional** annotation.

❖ Made use of **Spring Caching** to cache response and reduce response time.

❖ Utilized **Swagger** to document **RESTful API** endpoint behavior.

❖ Further monitored code behavior by using **@ControllerAdvice** and handled exceptions with **@ExceptionHandler** within **Spring AOP**.

❖ Performed unit tests to verify code behavior and correctness using **Mockito API** to create mock objects in conjunction with **JUnit** framework to write and execute automated tests.

❖ Tested endpoints for correct behavior using **Postman**.

❖ Utilized **GitHub** for team collaboration and version control.

Environment: Java 1.8, Spring Boot, Spring AOP, Maven, MySQL, Hibernate, Spring Data, IntelliJ, Git, GitHub, Postman, JUnit, Mockito, HTML, JSP

EDUCATION_____

California State Polytechnic University, Pomona   Pomona, CA
June 2017

Bachelor of Science, Computer Science