**Nathan Avery**

nwavette@gmail.com |

US Citizen, Oklahoma City, OK

**PROFESSIONAL SUMMARY**

Seasoned Java Developer with 7+ years of experience building scalable, secure, and high-performance applications. Quickly adapt to new technologies with enthusiasm.

**EDUCATION**

Oklahoma State University- Bachelor of Science: Computer Science, Mathematics, and Physics

**SKILLS SUMMARY**

● **Core Java:** OOP, Collections, Multithreading, Exception Handling, Streams API, Functional Interfaces

● **Web Development:** Spring, Spring Boot, Spring MVC, Spring Cloud, RESTful APIs, SOAP (Apache CXF)

● **Security:** Spring Security, JWT, OAuth2, Basic Authentication

● **Databases:** MySQL, SQL Server, MongoDB, DynamoDB, AWS S3, Apache Iceberg

● **Microservices & Architecture:** Microservices and Event Driven Architecture, Apache Kafka, RabbitMQ

● **Frontend:** Angular, React (Interpolation, Binding, Directives, Lifecycle Hooks, Dependency Injection)

● **Testing & Tools:** JUnit, Mockito, Postman, Jenkins, Docker, Maven, Git, Jira

● **Cloud & Deployment:** AWS (Lambda, SES, SNS, RDS, EC2, IAM), GCP, Confluent Cloud

● **Methodologies:** Agile (Scrum), TDD, CI/CD

**Professional Experience**

Avenu at MainStreet Bank, Fairfax, VA *August 2022 – November 2024*

Role: Microservice Team Lead

Description: Avenu is a BAAS (Banking as a Service) branch of MainStreet Bank. I worked as a Backend Java Developer and Team Lead creating and developing a product that provides a streamlined way for fintechs to accept deposits and facilitate payments while managing risk and meeting compliance obligations. My responsibilities included managing tickets using AGILE Development Strategies. Using microservices, my team worked to create independent scalable services that could handle the speed and reliability necessary for a banking system.

RESPONSIBILITIES:

● Led daily Scrum meetings as Team Lead, ensuring alignment with Agile principles.

● Involved in all aspects of the Software Development Life Cycle process (SDLC): gathering requirements and monitoring design, development, testing, documentation, and deployment.

● As Team Lead, I participated in many meetings with Product Leads and other Management to provide my insight into likely timelines or other input as we built out our services.

● Collaborate with the team to support the production deployment and run reports for the client.

● Optimized transaction processing with Apache Kafka, achieving sub-3-second debit card swipe handling at high volume.

● Code was pushed to a Dev environment first for dev team testing, then to QA for testing by our QA team, and finally to Prod once every two weeks at the end of our sprint.

● I was responsible for code deployment to Production once every Sprint cycle. Correcting any Git conflicts, and ensuring no breaking changes were added to our Production environment.

● Used JIRA and Mockito for unit testing, maintaining, and tracking daily development progress. Used GIT version control tool for maintaining code changes.

● Used Maven as a build tool and Git for local development tracking and staging and pushed to server.

Environment: Java 17, Micronaut, Microservices, Apache Kafka, ksqlDB, Maven, GCP

DXC ASA as Gainwell Technologies, El Paso, TX *September 2021 – August 2022*

Role: Full Stack Java Developer

Description: DXC, located in EL Paso, TX, is an IT service provider that has gone through a series of mergers and acquisitions and is now known as Gainwell Technologies. Working on the Medicaid Health Care Development Team for the Medicaid web system of Ohio, I worked as a Full Stack Java Developer creating and developing the user open enrollment feature of the managed care sub system. My responsibilities included discerning the needs and requirements for the State of Ohio and managing tickets using AGILE Development Strategies. Using microservices, my team worked to create independent scalable and services that feed into the user Open Enrollment Feature.

RESPONSIBILITIES:

● Built the user open enrollment feature for Ohio’s Medicaid system, collaborating in daily Scrum meetings.

● Develop a notification module to notify the user to select a managed care plan after enrolling successfully.

● Collaborate with the team to support the production deployment and run reports for the client.

● Specialized in allowing users objects to subscribe to different microservices.

● Created front end applications in Angular 2+ using the HTTP Client Service Module to get data and return it to individual Angular Components subscribing to Observables set in the HTTP Client Service Module.

● Passed JWT tokens via API using Oauth2 server layer to receive Tokens prior to entering the services set up for Medicaid.

● Passed JWT tokens for claims to module services for Spring Cloud.

● Consumed Services in both the front end and back end depending on the type of service requiring a queue.

● Tracked progress and conducted unit testing with JIRA and Mockito, managing code via Git.

● Used Maven as a build tool and Git for local development tracking and staging and pushed to server.

● Used Docker to create containers and passed code from the Development team to the Operations Team and served using Jenkins for Continuous Integration.

Environment: Java 8, SpringBoot, Microservices, J2EE, Spring data JPA, Angular 2+, Maven, Jenkins, AWS

H-E-B, San Antonio, TX *August 2020 - September 2021*

Role: Full Stack Java Developer

Description: H-E-B is an American privately held supermarket chain based in San Antonio, Texas, with more than 350 stores throughout the U.S. state of Texas, as well as in northeast Mexico. The application that I was tasked to work on is Drug Prescription Ordering. The main goal of this project was to handle the customer's specialty drug prescriptions and keeping track of all the drugs in the various H-E-B warehouses in the US. Involved in the design and development of drug search functionality using the Restful web services, online prescription refill forms, check refill status where the patient can check the status of the prescription refill and also responsible for implementing the Find your H‐ E‐ B Pharmacy hours functionality where the patient/user can find the stores nearby with store and pharmacy hours. Developed the application using Java rest services and Angular 2+ as front-end framework.

Responsibilities:

● Involved in all phases of Software Development Life Cycle like Requirements gathering, Analysis, Design and implementation of the project.

● Used Spring MVC and Dependency Injection for handling presentation and business logic, handling the Dispatcher Servlet and routing of the application.

● Customizing Restful Web Service using Spring Restful API, sending JSON format data packets between front-end and middle-tier controller.

● Leveraged Spring Boot to rapidly develop cloud-based microservices with minimal configuration. Used design patterns such as Facade, Singleton and Observer.

● Added security with Spring Security for RESTful API, tested and documented it by using Postman.

● Integrated Spring DAO for data access using Hibernate. Used Spring Security for Authentication and Authorization of the application. Integrated spring and Spring Data JPA together and worked on developing backend components and services.

● Developed Single Page Applications using Angular 2, HTML5, CSS3, JavaScript.

● Developed the front end of the application using Angular as framework, used typescript to create the services to connect to the backend APIs.

● Developed an AWS Lambda Function in the AWS SDK to notify the pharmacists and customers about updates, using AWS SES or AWS SNS depending on the customer preferences.

● Involved in writing complex queries and modifying the existing queries in the Oracle server.

● Managed unit testing and progress tracking with JIRA and Mockito, using Git for version control.

Environment: Java, JDK & JRE, J2EE, AJAX, CSS, HTML, JSP, Java, JDBC, Spring, Web Services, Spring Security, MySQL Server, SOAP UI, Microsoft Visio, GIT, Maven, JQuery, Eclipse, Apache Tomcat, JIRA, GIT, Angular 2+, Bootstrap, Typescript, Cloud 9, AWS, Mockito

GAINSCO Auto Insurance, Dallas, TX *March 2019 - August 2020*

Role: Java/Angular Developer

Description: Gainsco Auto Insurance is an auto insurance service provider and decided to upgrade the existing Auto Insurance Management System which is a fully automated and integrated application for managing the Policy plans, Agent Commission, Payment issues and Settlements. This Insurance Management System is to respond to the information of clients, policy details and premium rates and monitors the policies for delayed payments. It manages different claims per policies, claim settlements and allows coverage verifications. I worked on the client’s modules where customers can get a quote, view their packages, change the coverage, verify premium differences and they have an option to choose the premium years. Once the quote is generated, they can get it through an email or a print service. The customer can also choose to find an agent based on the residential zip code of the customer and choose from the list of available agents and get a quote from them. Developed the application using Java rest services and Angular.

Responsibilities:

● Designed and developed the application with Java/ J2EE technologies and design patterns, using Spring MVC architecture.

● Used Spring Batch as Spring Batch jobs can meet the requirements of reliability, robustness and traceability which are essential for automatic processing of large amounts of data.

● Implemented authentication and authorization using Spring Security with firm-wide SSO.

● Used Spring MVC and Dependency Injection for handling presentation and business logic.

● Designed and developed Restful APIs for different modules in the project as per the project requirements.

● Used Angular, Angular Material, HTML5, CSS, Typescript for rich user interface and faster performance, and Angular UI Router for routing pages.

● Extensively used JSON to parse the data from server side to satisfy the business requirements.

● Developed back-end interfaces using PL/SQL packages, stored procedures, functions, procedures, anonymous PL/SQL programs, Exception Handling in PL/SQL programs.

● Writing Java code to use Apache Axis web service API, developing Oracle PL/SQL Stored Procedures code.

● Enabled real-time client notifications for automatic transactions via AWS RDS and Lambda.

● Helped to deploy and configure the EC2 instances and set up the IAM groups in AWS.

● Implemented JUnit test cases for unit testing and suites for end-to-end testing. Used JIRA for tracking project stories in Agile Methodology.

Environment: Java, JDK & JRE, J2EE, AJAX, CSS, HTML, JSP, Java, JDBC, Spring, Web Services, MySQL Server, SOAP UI, Microsoft Visio, GIT, Maven, JQuery, Eclipse, Apache Tomcat, JIRA, GIT, Angular 7, Bootstrap, Typescript, Cloud 9, AWS

LA Fitness, Houston, TX *November 2017 - March 2019*

Role: Full Stack Java Developer

Description: The Fitness Center Management System is a gym software for the members and employees, designed to make it easy to maintain detailed records of members and their memberships, book classes and trainers, process and track sales, and communicate en masse with specific members at different times. With a full booking system, point of sale, website integration, billing integration, a web-based app for staff and members, online booking for clients, and check-in functionality, this software efficiently ran LA Fitness Center. Our data team built and operated a sophisticated sign-in and processing platform to exploit the vast volume of data, analyzing, documenting and designing the application for global consumption. The development team also used an Agile development workflow as well as Scrum.

Responsibilities:

● Contributed to Agile development through daily stand-ups, sprint reviews, and timely deliveries.

● Developed and deployed RESTful web services and MVC applications using Spring Boot.

● Involved in development of User Interface (UI) using HTML, CSS, Angular2, jQuery, JavaScript, Ajax, Spring MVC and JSTL and Agile development methodology.

● Created Typescript reusable components and services to consume REST API's using Component-based architecture provided by Angular 2.

● Worked extensively on developing controllers, Interfaces and implementation classes using Spring MVC framework & used Microservice architecture with Spring Boot based service through REST.

● Consumed SOAP/ RESTful web services from VHI (Main frames) legacy systems with implemented synchronous communications using Queue for handling multiple requests.

● Worked on SQL scripts to insert master data into tables. Worked on a jetty server to deploy applications locally.

● Provided the Payloads for the REST endpoints for each business flow and validated the data in Backend and logged in the Database for Audit.

● Developed a rest API using spring rest controller which consumes and produce Rest Json and tested it using Postman.

● Created and consumed Restful Web services and used Postman to send and receive XML data and worked with JMS Queues for sending messages in point-to-point mode.

● Integrated Spring Dao for data access using Hibernate to fetch data from databases and avoid redundant database access statements.

● Involved in ORM mappings for associations, Inheritance & fetching strategy, performing different operations and managing second level cache using Hibernate.

● Written JUnit Test cases for unit testing and tested web services with REST Client.

Environment: Java, Spring framework, Spring boot, Hibernate, jQuery, Web Services, WebSphere Application Server, JSON, Microservices, Eclipse, JSP, Angular2, HTML5, CSS3, OAuth2, Log4J, MySQL, putty, GitHub, Mockito, Ant, SOAP, SOAP UI.