**Nathan Avery- Microservice Java Developer**

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**PROFESSIONAL SUMMARY**

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

**SKILLS SUMMARY**

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

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

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

● **Databases:** MySQL, SQL Server, MongoDB, DynamoDB, AWS S3, SQL Optimization, Stored Procedures

● **Microservices & Architecture:** Microservices Architecture, Eureka, 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

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

**SKILLS CHART**

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| **Languages** | **Java, J2EE,** |
| **Back End Technologies/Frameworks** | **Hibernate 4.x/3.x, Spring 3.0, Spring Batch, Spring Security, Spring**  **AOP, Spring Core, Spring IOC.** |
| **Micro Services/Tools/Web Services** | **Microservice architecture** |
| **Databases/ORMs** | **Hibernate, MySQL, Sql Server, DynamoDB, MongoDB** |
| **Front End Technologies** | **HTML, CSS, Angular 2+, Node JS, Android** |
| **IDEs Tools** | **Eclipse, MongoDBCompass, MySQL workbench, SQL Server Management System, Visual Studio Code** |
| **Project Management/Version Control** | **Git, SVN, JIRA** |
| **Deployment** | **AWS EC2, GCP, Jenkins, Docker** |
| **Operating Systems** | **Windows, Linux** |

**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 ongoing Federal Requirements, design, development, testing, documentation, and deployment.

● As Team Lead participated in many meetings with Product Leads and other Management to provide my insight on 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 Prod 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.

● Involved in all aspects of the **Software Development LIfeCycle process (SDLC):** gathering requirements and

monitoring ongoing Federal Requirements, design, development, testing, documentation, and deployment.

● Develop a **notification module** to notify the user to select a managed care plan after **enrolled 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**.

● Established connections with the user claims modules which has a **lifeCycle process** for **fast** claims processing and

**payment modules**.

● Created front end applications in **Angular 2+** using the **HTTPClient Service Module** to get data and return it to

individual Angular Components subscribing to **Observables** set in the **HTTPClient 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 frontend and backend 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.

● Used **Angular, Bootstrap** for rich user interface and faster performance and **Angular UI Router** for routing pages.

● 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, JSON.**

● 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 the 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 the 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, TXNovember **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 validating 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 database 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.

**EDUCATION:**

**Oklahoma State University,** Stillwater, OK **Bachelor of Science:** Computer Science, Mathematics, and Physics.