**Josiah Tuttle Kopacz**

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* Nearly 10 Years of experience in Information Technology in various roles with experience in Design, Analysis and Full Stack Development using versatile frameworks.

**PROFESSIONAL SUMMARY:**

* Hold cutting edge technologies experience on **JavaScript and Java tech stack.**
* JavaScript Full Stack Developer with exclusive experience in micro services architecture using **React/Redux**.
* Experience in developing client-side validations using **Angular 8/11/14 and in developing Custom pipes, Shadow DOM.**
* Functional expertise includes **Web Application & Desktop Application, CRM Applications.**
* Expertise with **Object Oriented Design (OOD), Object Oriented Analysis (OOA), Object Oriented Modelling (OOM) based on Unified Modelling Language (UML) architecture.**
* Expertise in developing **SOA (Service Oriented Architecture), REST and J2EE Web Services based on SOAP, BPM, WSDL, JAX-WS, JAXB, JAX-RPC** using tools like **Apache Axis.**
* Data Engineering experience on development **ETL orchestration and data processing pipelines, workflows or services using EMR, EC2, AWS Glue, AWS Open/Elastic Search, Step Functions, Lambda, S3, Cloudwatch Event bridge, Python/PySpark, Snowflake.**
* Implemented APIs using **Java 8 and Hibernate ORM**. Implemented **Java EE components using Propellant framework.**
* Worked in backend frameworks like **Flask or Django for Python.**
* Designed and implemented complex data integration solutions using **Azure Logic Apps** and **Azure Functions**, streamlining data flow between various applications and systems.
* Leveraged **Azure Blob Storage and Azure Data Lake Storage** for scalable and cost-effective data storage solutions, enabling efficient data archiving and retrieval.
* Experience in using build/deployment tools such as **Jenkins, Docker and OpenShift for CI/CD (Continuous Integration & Deployment) for Microservices.**
* Involved in designing and deploying multitude applications utilizing almost all **the AWS stack (Including EC2, Route53, S3, RDS, DynamoDB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS CloudFormation.**
* Experience in **Agile software development process, Test Driven Development and Scrum.**
* Utilized **Java 8 features like Lambda expressions and Stream API** for Bulk data operations on Collections which would increase the performance of the Application.
* Successfully integrated **Object-Oriented and Service-Oriented Architecture** principles, harnessing the strengths of both paradigms to build flexible and scalable systems.
* Designed and developed robust and **RESTful APIs**, enabling seamless integration with various banking applications and third-party services.
* Based on Knowledge of **GCP’s data analytics and machine learning services**, such as BigQuery, Cloud Dataflow, Cloud ML Engine, and AI Platform, processed and analyzed large datasets and built ML models with python.
* Ensured the highest level of security and compliance by implementing strong authentication, authorization, and encryption mechanisms, complying with industry standards and regulations.
* Proficient in leveraging **Azure Databricks and Spark** for distributed data processing and transformation tasks.
* Skilled in ensuring data quality and integrity through validation, cleansing, and transformation operations.
* Good knowledge on **AWS cloud** **formation templates and configured SQS service through Java API** to send and receive the information.
* Configured **Spark streaming** to get ongoing information from Kafka and store the stream information to HDFS.
* Comprehensive knowledge in **RDBMS** databases like **Oracle 10g/11g, SQL Server 2005, 2008, DB2, and MySQL 4.x, 5.0.**
* Experience with complete Spring framework**- Spring Boot, AOP, Transactions, Security, ORM, MVC, spring integration with AWS**
* Worked extensively with **Core Java, Multithreading, Transactions, Exception Handling and Collections.**
* Extensive experience in developing **GUIs using Struts, SPRING MVC, SPRING web flow Frameworks.**
* Experience Hands on with **PL-SQL Stored Procedures, Triggers and Views.**
* Experience in **Web Services, SOAP, JAX-RPC, WSDL, JSF, HIBERNATE, EJB, XML**.
* Development experience in **Windows, Linux, Mac OS, Docker containers and UNIX operating systems.**
* Used DAO access and **writing DML, DDL and triggers for DB2 database** and other client environment specific tools to design the client module.
* Experience in ins**talling, configuring, tuning Apache Tomcat, WebLogic and WebSphere.**
* Designing the services and endpoints based on **the Domain Driven Design approach and Richardson’s Maturity model.**
* Implemented **Spark using Scala and Spark SQL for faster testing and processing of data**
* Utilized **Java 11 features like Lambda expressions and Stream API** for Bulk data operations on Collections which would increase the performance of the Application.

**TECHINCAL SKILLS:**

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| **Backend Technologies** | Core Java, Golang, JSP, JDBC, JNDI, JMS, JSTL, NodeJS, Java Beans, RMI, Java Multithreading, Generics and Collections, EJB, Tiles, Maven, Ant, MS Build, Python. |
| **Frontend Technologies** | HTML5, XML, XSLT, SAX, DOM, CSS3, JavaScript, XPath, AJAX, jQuery, Angular 11, Angular 6, Angular 8/10/12/14, Bootstrap, TypeScript, Node.js, ReactJS. |
| **Methodologies** | UML, Agile, Waterfall, TDD |
| **Frameworks** | Spring (IOC, Boot, AOP, DOA, Security), Struts, Hibernate. |
| **Design & GUI Tools** | Eclipse, IBM RAD/WSAD, NetBeans, Notepad++ |
| **App servers** | IBM WebSphere, Apache Tomcat, BEA Web Logic, JBOSS |
| **Databases/Tools** | PostgreSQL, Oracle 11g/10g /9i, NoSQL, SQL Server, DB2, MySQL |
| **Design/Version Control** | CVS, SVN, VSS, GIT |
| **Operating Systems** | Windows, Linux, UNIX |

**University of Texas at Austin** **April 2014Degree: Bachelor of Science in Computer Science |** Austin, TX, United States Relevant coursework: Data Structures and Algorithms Operating Systems Database Systems Software Engineering Computer Networks Artificial Intelligence Web Development Computer ArchitectureGPA: 3.8

**EDUCATION:**

**PROFESSIONAL EXPERIENCE:**

**Client: MEMBERSY | Austin, TX, USA | Remote Feb 2020 to Dec 2023**

**Role: Senior Software Engineer / Java Full Stack Developer**

**Responsibilities:**

* Designing and programming **System-level Software for Healthcare applications,** focusing on **micro services-based APIs** for **Patient Data Management System** and **Healthcare Content Recommendation Engines.**
* Implemented secure and scalable APIs using **Java 8** **and Hibernate ORM** for a patient management system, facilitating seamless data exchange between healthcare providers and ensuring patient data integrity.
* A strong understanding of the **Spring Framework** and **building software for the cloud.** Leveraged the Spring Framework to build cloud-based healthcare applications, enhancing patient data accessibility and system interoperability.
* Utilized **Spring Integration** for **Async Channels, Global error handling, HTTP Outbound gateway, Spring Cloud Config Server** within healthcare content delivery systems, so improved the reliability by 13%.
* Worked on **Angular11 CLI**to deal with troubleshooting and deal with the **Angular11 virtual environment bugs.**
* Employed advanced algorithms and data structures to analyze patient data and health records, utilizing **JDK 1.8** **and J2EE** technologies(**EJB** and **JMS**) for efficient and real-time content delivery tailored to individual patient needs.
* Designed and implemented microservice-based healthcare applications, such as appointment scheduling and medical record management, ensuring real-time responsiveness and adaptability to patient care needs.
* Successfully implemented **NoSQL** data structures to accommodate flexible patient data models, particularly for unstructured or semi-structured health records.
* Developed a **healthcare chatbot** integrated into the patient portal using **JSF and JSP**, providing real-time assistance for patient inquiries, appointment scheduling, and medical advice.
* Implemented **Maven** for streamlined build and dependency management, ensuring the reliability and consistency of telecom application development.
* Engineered real-time patient data processing systems, utilizing **JPA and Hibernate** with databases such as **Oracle and SQL Server** to ensure accurate and reliable patient information management.
* Created a personalized healthcare dashboard for patients and providers on **WebSphere** Application Servers, using **REST and JAX-WS** for secure and efficient data retrieval, enabling real-time monitoring of patient health and treatment plans.
* Developed a real-time analytics platform for analyzing patient data and healthcare interactions, providing insights into treatment effectiveness, patient satisfaction, and operational efficiencies. Using **JEE Design Patterns**, it automatically identifies and assesses the impact of new regulations on the operations.
* Adapted **Spring MVC Framework, Spring Boot, Hibernate**, and various front-end technologies(**HTML5, CSS3, JavaScript/TypeScript, Angular JS** and **React JS**) to develop intuitive and responsive interfaces for healthcare applications, enhancing patient and provider engagement.
* Implemented containerization with **Docker and Kubernetes** to ensure scalability and reliability of healthcare systems, accommodating growing patient data volumes and concurrent users.
* Gained proficiency in **Java 11 features** such as **Parallel Streams, Lambdas, functional interfaces, and filters,** applying these to develop high-performance healthcare analytics and patient data processing systems.
* Engineered resilient healthcare platforms capable of handling increased patient data and concurrent users by employing containerization with **Docker** **and Kubernetes**, ensuring system scalability and reliability.
* Adopted Angular component-based architecture for developing modular and reusable **UI components** in healthcare applications, streamlining the development process and improving maintainability for patient portals and administrative dashboards using **Angular 12**.
* Utilized **RESTful Web services** to expose functionalities of healthcare applications, developing **HTTP POST** and **GET** methods as per requirements and managing error handling effectively to ensure robust data exchange.
* Demonstrated expertise in **Apache Kafka** for real-time messaging in healthcare systems, facilitating efficient communication and integration within the healthcare information ecosystem.
* Employed **REST tools** such as **Swagger**, **Postman**, **and SOAP UI** for testing HTTP requests and responses, ensuring the reliability and performance of APIs in healthcare applications.
* Integrated new **Angular 11 features** such as the new if-else syntax, ng-templates, form validators, and Router in the development of dynamic and interactive patient-facing web applications.
* Developed and maintained responsive web applications for healthcare, utilizing **Angular 12** to leverage the latest features and best practices for optimal performance and user experience.
* Applied **Spring framework technologies** like **Spring Core, Spring AOP, Spring MVC, Spring Batch, Spring Security, and Spring Boot**, integrating microservices into the healthcare system architecture for enhanced functionality and interoperability.
* Utilized **Kibana and Elasticsearch** for monitoring and troubleshooting **Kafka** message failures, ensuring the reliability of real-time data flows in healthcare applications.
* Managed **MongoDB** clusters for healthcare data storage, leveraging extensive experience in deploying, managing, and developing **NoSQL** databases to support dynamic data models in patient management systems.
* Designed and developed **REST-based microservices** using **Spring Boot** for healthcare applications, facilitating seamless integration and interaction within the healthcare ecosystem.
* Acquired working knowledge in **EC2**, managing snapshots, volumes, and security groups to support secure and scalable cloud hosting for healthcare applications.
* Employed **Ajax** techniques to develop dynamic and responsive user interfaces for healthcare applications, improving user engagement and satisfaction through interactive and intuitive UI designs.
* Implemented **Apache Ant** for automated build processes in healthcare application deployment, achieving consistent and reliable updates while minimizing manual efforts.
* Leveraged **Bootstrap** to develop responsive and user-friendly interfaces for healthcare applications, ensuring an optimal user experience across various devices and enhancing accessibility for patients and healthcare professionals.
* Managed the data migration from legacy systems to modern databases, minimizing downtime and data loss, thus ensuring the continuity and integrity of patient data in the transition to updated healthcare systems.

**Environment:** Java 11,Java 8 JDK 17, REST, Core Java, Microservices, SOAP, XML, Angular 12/React, Spring, Spring Boot, Spring MVC, Docker, Confluence, Git, Jenkins, Kubernetes, Maven, Kafka, Meter, JBoss, Apache Tomcat, Active Mq, Splunk, POSTMAN, AWS (EC2, S3, Cognito, EBS, ELB, CloudWatch, SNS, SQS, SES, Step Functions, Spring framework, Spring Boot, Spring Reactive, Restful webservices, AWS Infrastructure, Cloud formation template, Kafka, Docker, Angular framework, Bootstrap, Graph QL, Azure Data Factory, Azure Service Bus, Azure Event Grid, Azure Logic Apps, Oracle, Type script, ReactJS, HTML5, NoSQL, OpenShift, Kubernetes, Node JS, CSS3, JPA, GIT Hub, Jenkins, JSON, DB2, Gradle, Junit, Mockito framework, Swagger, Post man, Jira.

**Client: Built In Austin / DATASCAN | Austin, TX, USA July 2016 to Dec 2019**

**Role: Multi Discipline Software Engineer**

**Responsibilities:**

* Developed intricate view-controller components using **JSPs**, **HTML5**, **CSS3**, **AJAX**, **and JavaScript** (**jQuery**).
* Elevated user engagement and accessibility by seamlessly integrating **HTML** Video and Audio elements for multimedia content such as videos and podcasts.
* Engineered a sophisticated routing mechanism and navigation system, implementing login functionality on the client side using **Angular 11**. Spearheaded the design and development of the agent portal, skillfully harnessing the capabilities of Angular 11 in conjunction with **HTML5**, **CSS3**, **and TypeScript**.
* Crafted a repertoire of reusable **TypeScript** components and services, meticulously tailored to consume **REST APIs**, underpinned by **Angular 11's Component-based architecture**.
* Mastery of **Java EE Design Patterns**, leveraging them to create robust and maintainable Telecom applications, including **Singleton**, **Factory**, **and Observer patterns**.
* Extensive experience in **J2EE** technologies, including **EJB (Enterprise JavaBeans), JDBC, JMS (Java Message Service)**, and **JAXB**, ensuring seamless data exchange and processing in Telecom systems.
* Designed and developed **Restful web services** using **JAX-RS**, offering efficient communication and data exchange between Telecom applications and external systems.
* Specialization in **WebSphere Application Servers 7.0** and **WebSphere Portal Servers 7.0**, including configuration, optimization, and high-availability setup for Telecom applications.
* Mastered the art of **CSS Flexbox** **and Grid Layout** to sculpt responsive and highly flexible page layouts, assuring a consistently intuitive user experience across a myriad of devices and screen sizes.
* Orchestrated the integration of telecom applications with **Active Directory**, ensuring centralized user management and secure access control for real-time network operations.
* Implemented **Git** for version control and collaboration, ensuring code integrity and seamless teamwork in developing real-time telecom solutions.
* Developed **Java Servlets** to manage real-time network control and data processing in telecom applications, ensuring responsive and efficient network operations.
* Utilized **JPA** with **Hibernate** implementation for efficient object-relational mapping, simplifying data interaction and management within telecom applications.
* Developed server-side **JavaServer Pages (JSP)** to deliver real-time network data and status information, vital for proactive network management.
* Utilized **Quartz** to automate and schedule critical network management tasks, such as data synchronization and real-time network updates.
* Implemented semantic **XHTML** to provide structured and accessible content, improving **SEO** and ensuring telecom applications comply with web standards.
* Created **Google cloud Storage Buckets** maintaining and utilizing the policy of these buckets and use **GCP** code line for storage and backup of **GCP** resources.
* Commanding expertise in the **Spring MVC framework** for the meticulous implementation of the **Model-View-Controller (MVC) architectural paradigm**.
* Leveraging **Object-Oriented and Service-Oriented Architecture**, this application provides insights into network traffic, bandwidth usage, and equipment status. It enables immediate responses to network issues and maintains high availability.
* Most of the applications uses advanced algorithms and **JEE Design Patterns** to ensure minimal service disruptions. It integrates with telecommunication equipment to enable swift fault resolution.
* Created a real-time telecom billing and usage analysis platform for both postpaid and prepaid customers. The system utilizes **J2EE technologies like EJB, JDBC, and Rest** to process call data records in real-time.
* Engineered a real-time self-service portal for telecom customers using **JSF and JSP**. This portal allows customers to view their call history, data usage, and billing information in real-time.
* Designed a real-time network provisioning system that streamlines the activation and management of telecommunication services. The application uses **JAXWS** for provisioning requests and responses, ensuring real-time service activation.
* Developed a real-time **QoS dashboard** for monitoring the quality of voice and data services. The dashboard provides network administrators with real-time insights into QoS metrics.
* Engineered a real-time inventory and asset management system for telecom infrastructure. The application uses **EJB, JDBC, and JMS** to track the availability, location, and status of network equipment.

**Environment:** Agile methodology, Java, J2EE, Hibernate, Spring, XML, JSP, JAX-RS, Spring AOP, Spring security, Oracle, Hadoop, MapReduce, Spark, Hive, PostgreSQL, JSP, HTML, AJAX, JavaScript, jQuery, AngularJS, Docker, Kafka, GIT, JIRA, GCP, PL/SQL, STS, JUnit, Log4J, Maven, Jenkins, Team Forge, WebLogic Application Server, Azure.

**Client: Adage Technologies / Comcast, Chicago, Ilinois, USA May 2014 – Jun 2016**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Worked on front end, business, and persistence tier using **JSP, Java Script, and Hibernate frameworks**.
* Actively contributed to the development and ongoing maintenance of web applications built on the **Angular 8** framework.
* Demonstrated proficiency in utilizing **Angular 8's Ivy Renderer**, a significant enhancement that optimized rendering performance.
* Strategically implemented differential loading in **Angular 8**  applications to optimize browser compatibility.
* Leveraged the **Angular CLI** extensively to streamline project setup and management tasks.
* Developed **Microservices & APIs** using **Spring Cloud, Spring Security, Spring Boot, Spring Integration**.
* Developed business validation classes using **Spring Boot**.
* Setting up the Configuration to connect to the services and change the default configuration using **Spring Boot.**
* Expertise in transforming and formatting data to meet the specific requirements of insurance web services, ensuring smooth integration and real-time data accuracy.
* Inventory management system using **Object-Oriented and Service-Oriented Architecture.** The system tracks product availability, restocks, and order processing in real-time. It ensures that customers always see accurate stock levels and that products are shipped promptly.
* Developed a dynamic pricing engine that adjusts product prices in real-time based on various factors, such as demand, competition, and inventory levels. This application enhances e-commerce competitiveness and boosts revenue by optimizing prices.
* Employed **JavaScript** for developing dynamic front-end components and enhancing user interactivity in insurance applications, ensuring real-time user engagement.
* Utilized **Primefaces** to create interactive and responsive user interfaces in insurance applications, enhancing the user experience for real-time policy management.
* Created a real-time recommendation system that uses algorithms and **JEE Design Patterns** to analyze customer browsing and purchase behavior. It provides customers with personalized product recommendations and suggestions.
* Effectively implemented **Java EE design patterns** in real-time applications, enhancing code quality, reusability, and maintainability while ensuring alignment with industry best practices.
* Developed real-time applications using **Java Development Kit (JDK) 1.8** or higher and a comprehensive suite of **Java EE technologies**, including **EJB, JDBC, JMS, MQ, JAXB, Rest, and JAX-WS**.
* Proficiently used **Java Persistence API (JPA)** and **Hibernate** to manage data storage and retrieval in real-time applications, with a focus on Oracle and SQL Server databases.
* Utilized **JavaServer Faces and JavaServer Pages (JSP)** for building dynamic and interactive web interfaces, enhancing the user experience and usability of real-time applications.
* Applied extensive experience with **IBM WebSphere Application Servers 7.0** and **WebSphere Portal Servers 7.0** to ensure the high availability and performance of real-time applications in Walmart's environment.
* Collaborated with **UI/UX** teams to design and implement user-friendly interfaces for Walmart's real-time applications, focusing on responsiveness, accessibility, and seamless interactions.
* Engineered a real-time order tracking and delivery system that allows customers to monitor their order's status from placement to delivery. It integrates **GPS tracking and JMS** for real-time updates on delivery progress.
* Designed a real-time content moderation system to ensure that user-generated content, such as reviews and comments, meets quality and policy standards. The system employs Rest and JAXWS for content monitoring.
* Developed a real-time fraud detection system that uses machine learning models and Rest to analyze transaction patterns. It identifies and prevents fraudulent transactions in real-time, ensuring secure and trustworthy e-commerce.
* Created a real-time chatbot using **J2EE technologies** that provides immediate customer support through real-time chat. It uses **EJB** for scalability and **JMS** for message delivery.
* Developed a scalable order processing system using **EJB, JMS, and MQ** to handle high volumes of incoming orders. The system ensures real-time order processing, payment verification, and inventory updates.
* Explored new tools and frameworks within the **Hadoop ecosystem**, such as **Impala, Drill, and Tez**.
* Stayed up to date with emerging trends and technologies in the big data and Hadoop ecosystem.
* Configured **Kerberos** authentication for secure access to Hadoop services and resources.
* Developed Test cases using **Behavioral Driven Development (BDD) methodology**.
* Involved in developing role base code using **LDAP**.
* Involved in Database design, writing **SQL Queries**, stored procedures in **Oracle**.
* Provisioned, configured, and managed Aurora **PostgreSQL** clusters to ensure optimal database performance and availability.
* Integrated **Amazon SQS** with **AWS Lambda** functions, allowing for auto-scaling and efficient message processing.
* Deployed WAR, EAR, and JAR files in JBOSS application server.

**Environment:** Java, Maven, Ant, Java Script, Angular 8, TFS, Team Forge, Spring boot, Spring Security, Spring Cloud, Rest API, SQS, AWS, Oracle, Hadoop Ecosystem,Impala, Drill, Tez, PostgreSQL, Jenkins, Maven, Git, Agile, JIRA, Kafka.

**Client: teleNetwork | San Marcos, TX, USA | Part-time Apr 2012 – Mar 2014**

**Role: Software Engineer-Full Stack**

**Responsibilities:**

* Expertise in Java development skills with core **Java 8**.
* Used **JDBC** and **Hibernate** for database interactions.
* Developed intricate build scripts using **Ant and MS Build**.
* Implementing strategies for scaling web services to handle increasing real-time requests, as well as optimizing their performance for quick responses.
* Experienced in developing messaging modules using **Spring JMS**, **Apache Camel**, and **Rabbit MQ.**
* Competent in **Spring** with **JDBC / Hibernate** modules for **ORM frameworks**.
* Developed cloud-hosted web applications and **REST APIs** using **Spring Boot** with embedded **Tomcat**.
* Developed Spring Boot based Micro Services and implemented **Spring Cloud/Netflix API** **architecture patterns (Eureka Service discovery, Configuration server)**.
* Utilized **Spring Boot's built-in features** for rapid development, including embedded Tomcat servers and simplified dependency management.
* Implementing real-time data validation techniques within web services to maintain data integrity and ensure that insurance-related data is accurate and up to date.
* Utilized **JavaScript** to build dynamic user interfaces for Insurance applications, offering real-time customization options and ensuring a responsive user experience on various devices.
* Built scalable enterprise applications using **Spring, Hibernate, and Spring REST** for secure communication.
* Implemented various screens for the front end using **React JS**.
* Utilized predefined components from **NPM (Node Package Manager)** and **redux library**.
* Used **Redux** to manage the application's global state, especially for user login status.
* Employed React-Router to turn the application into a **Single Page Application (SPA)**.
* Extensive use of agile and **Scrum methodologies** in front-end development.
* Experience in web application development using **Angular 8 with HTML5 and CSS3.**
* Developed **Spring Boot** applications for microservices.

**Environment:** Java 8, Maven, Hibernate, Re HTML5, React, CSS3, Kafka, RabbitMQ, Apache Tomcat, Json, Java Script, Spring, PL/SQL, My SQL, IBM Cognos, Oracle, Spring JDBC, Eclipse, JUnit/Mockito, Karma, JMeter, Selenium, Jenkins, GIT, Docker, Log4j, AWS, JIRA, Rest API, PCF.