**SAI MAHENDRA PENUMAKULA**

**334-489-0160**

[**saimahendrapenumkula@gmail.com**](mailto:saimahendrapenumkula@gmail.com)

[www.linkedin.com/in/sai-mahendra-penumakula-338777286](http://www.linkedin.com/in/sai-mahendra-penumakula-338777286)

**Java Full Stack Developer**

**PROFESSIONAL SUMMARY**

* Over nine years of **Java development experience**, specializing in multi-tier distributed Enterprise applications using **Java and J2EE technologies**.
* Proficient in **Agile methodologies**, including **Sprint, Scrum, Waterfall, and Test-Driven Development (TDD)**.
* Expertise in **Java 17, 11, and 1.8 features**, utilizing multithreading and collections for efficient development.
* Skilled in J2EE frameworks such as **Spring Boot, Spring MVC, Struts, and Servlets**.
* Implemented **Node.js** alongside Java for versatile and responsive architecture.
* Knowledgeable in **microservices**, employing industry-standard design patterns and use case diagrams.
* Proficient in **RESTful and SOAP web services**, ORM frameworks **(JPA, Hibernate, Spring JDBC), and Spring Cloud**.
* Implemented security measures such as **OAuth2, SSL, and JWT**.
* Adept at using diverse front-end technologies and working with **SQL and NoSQL databases**.
* Successfully implemented **Jenkins CI/CD for automation**, ensuring comprehensive testing coverage.
* Utilized cloud technologies like **AWS and Azure** for scalable infrastructure.
* Focused on data protection and efficient communication through **message queues**.
* Demonstrated a versatile skill set and extensive experience in **enterprise application development**.
* Committed to seamless **automation and deployment**, emphasizing scalability.
* Capable of delivering sophisticated and scalable solutions in the dynamic landscape of **enterprise application development**.

**TECHNICAL SKILLS:**

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| Languages | Java 17,11,8.0, J2EE, PL/SQL, SQL, Python |
| Server Programming | J2EE, Servlets, JSP, Struts, JMS, JDBC, Spring, Hibernate, Spring Boot, SOAP Web Services, RESTful web services, Spring MVC, AWS, Azure |
| Frontend Frameworks/libraries | Angular, HTML, CSS, TypeScript, JavaScript, jQuery, Bootstrap, React, AJAX, Node.js |
| Application Servers | WebLogic, WebSphere, JBoss |
| Web Servers | Apache Tomcat, Web Sphere, Apache, JBoss EAP, Web Logic Server, and Apache Camel |
| Database Systems | Oracle 7.x/8i/9i/10g, My SQL, SQL Server 2008/2012, PostgreSQL, Cassandra, DB2, Mongo DB, OO Modeling UML, Rational Rose, Neo4j. |
| Cloud Technologies | AWS, EC2, S3, Lambda, ECS, Azure |
| XML Technologies | XML, DOM, SAX, XSL, XSLT, JNDI, SOAP |
| Version Control systems | CVS, Rational Clear Case, SVN, GitHub |
| Tools | JUnit, Log4j, SQL\*PLUS, TOAD, ANT, Maven |

**PROFESSIONAL EXPERIENCE**

**Full Stack Java Developer**

**First Republic Bank, New York, NY April 2021 to Present**

**Responsibilities:**

* Led the creation of the **Customer Data Repository (CDR)** using **Java 17 and Spring Boot**, aligning development goals with business requirements, and reducing external data requests by 30%.
* Managed the **S&P File Processing module**, organizing daily files, and maintaining data integrity, resulting in a 25% increase in operational efficiency.
* Designed and implemented the **CDR Command Centre**, utilizing **Node.js** for specific tasks, streamlining developer tasks, and supporting teams with a 20% improvement in task completion time.
* Developed a **Bank Statement module API** with **Java** and incorporated **Node.js** for OCR technology, simplifying storage and retrieval processes and reducing manual effort by 35%.
* Enhanced user interfaces with **Angular 14**, improving the user experience and interaction with developed modules, resulting in a 25% increase in user satisfaction.
* Utilized a comprehensive technology stack including **Java, Spring, Angular 14, TypeScript, Node.js, Spring Cloud, Apache Kafka, Splunk, Elastic Search, SQL, PostgreSQL, Docker, and Spring Security.**
* Applied **AWS (EC2)** for cloud infrastructure, contributing to a 20% improvement in scalability and reliability in handling customer data.
* Leveraged **CI/CD practices**, scripting efficient deployment processes with **Docker files** and incorporating **Node.js** where needed, resulting in a 30% reduction in deployment time.
* Integrated technologies like **Oracle, OpenShift, Bootstrap, JavaScript, Kubernetes, Hibernate, Maven, JIRA, JMeter, JUnit, ANT, and WebLogic**, ensuring a comprehensive and efficient development environment.
* Played a key role in achieving seamless communication using **Apache Kafka**, enhancing real-time data processing by 40%.
* Utilized **Splunk and Elastic Search** for log management and system monitoring, reducing issue resolution time by 25%.
* Integrated security measures **with Spring Security and Node.js**, ensuring data protection and compliance, leading to a 15% improvement in system security.
* Demonstrated proficiency in performance testing using **JMeter**, ensuring scalability and reliability, resulting in a 20% improvement in system performance.
* Collaborated within an **Agile environment**, contributing to sprint planning, daily stand-ups, and retrospectives, fostering a 30% increase in team collaboration and project success.

**Environment:** Java 17, Angular 14, TypeScript, HTML, CSS, LESS, SASS, Spring, Spring Boot, Agile, Spring Cloud, Apache Kafka, Node.js, Splunk, Elastic Search, SQL, PostgreSQL, Docker, Spring Security, AWS EC2, Microservices, Kibana, CI/CD, Oracle, Jenkins, OpenShift, Bootstrap, JavaScript, Kubernetes, Hibernate, Maven, JIRA, JMeter, JUnit, ANT, WebLogic, GitHub.

**Full Stack Java Developer**

**Mercedes-Benz Financial Services**

**Farmington Hills, Michigan August 2017 to March 2021**

**Responsibilities:**

* Designed and implemented secure APIs using **Java 11 and Spring Boot**, facilitating seamless communication between Mercedes-Benz Financial Services' systems and Dealership management systems.
* Defined and implemented a standardized data model using the **Hibernate Framework**, ensuring consistency and efficient mapping of data fields between systems.
* Implemented real-time data synchronization mechanisms with **Azure services**, ensuring immediate updates on vehicle inventory, financing options, and customer data, resulting in a 20% reduction in data latency.
* Utilized an event-driven architecture with **JMS** for real-time reaction to specific events, enhancing responsiveness during customer-initiated financing applications and triggering immediate data exchange between systems.
* Implemented robust security measures, including encryption and secure authentication, ensuring compliance with industry regulations and standards, and achieving a 99.9% data security rating.
* Integrated **Node.js** to enable **WebSocket communication**, fostering bidirectional, real-time data exchange between **React**-based frontend and backend systems.
* Leveraged **Node.js's asynchronous nature** for streamlined event handling, improving system responsiveness during data synchronization and updates by 30%.
* Developed a comprehensive error handling system using **Log4j**, enabling effective troubleshooting and continuous improvement during data transfer.
* Implemented secure user authentication and authorization mechanisms using **Spring Security**, ensuring controlled access and modification of relevant data.
* Set up monitoring tools with **Azure services**, tracking integration performance and health. Established reporting mechanisms for insights into data transfer patterns, identifying and mitigating potential bottlenecks.
* Designed the integration with scalability in mind, leveraging **Microservices architecture, Elastic Load Balancing, and Docker**, accommodating future growth and optimizing performance by 40%.
* Provided comprehensive documentation using Jira, outlining integration processes and workflows. Conducted training sessions ensuring effective utilization. Implemented a robust testing strategy using **Junit and Mockito**, resulting in a 95% reduction in post-deployment issues.

**Environment:** Java 11, Spring Boot, Hibernate, JMS, Node.js, Azure services, WebSocket, React, Log4j, Spring Security, Microservices architecture, Elastic Load Balancing, Docker, Oracle9i, SQL, PL/SQL, Jenkins, GIT, WebSphere Application Server, WSAD, JSP, AJAX, JavaScript, HTML, CSS, Struts tags.

**Full Stack Java Developer**

**AAL (American Airlines), Fort Worth, TX October 2016 to July 2017**

**Responsibilities:**

* Designed and implemented a centralized **Crew Scheduling System** using **Spring MVC, Spring Boot, and Angular**, ensuring compliance with aviation regulations, labor laws, and union agreements.
* Integrated real-time database connectivity with **Java, EJB, SOAP, and JMS**, automating alerts and notifications for compliance features.
* Created a **Crew Preferences and Bidding System with Angular, TypeScript, and Spring Boot**, enabling crew members to optimize schedules based on operational needs.
* Developed algorithms in **Java** for automated schedule optimization, integrating machine learning models for continuous improvement based on historical data, resulting in a 20% efficiency gain.
* Built **Angular** **Native mobile applications** for crew access to schedules, real-time updates, and request submissions, ensuring seamless communication with **JMS features**.
* Integrated **Crew Management systems** with HR platforms using **SOAP and WSDL**, ensuring up-to-date crew qualifications, certifications, and automated training alerts.
* Developed communication tools with **Angular and WebSocket**, fostering collaboration among crew members and integrating with existing systems for a unified platform.
* Implemented predictive analytics for anticipating crew shortages in **Java, integrated with AWS for scalability**, and developed features for proactive scheduling adjustments.
* Created a reporting and analytics dashboard using **Angular**, providing management with key metrics related to crew scheduling, utilizing **Java, JDBC for data retrieval, and Oracle for database management**.
* Implemented robust security measures using **Java, Spring Security, and AWS**, ensuring compliance with data protection regulations. Established an audit trail using **Log4J** to track changes to crew schedules, ensuring accountability. Conducted regular security audits and updates.

**Environment**: Java, Spring MVC, Spring Boot, Angular, TypeScript, EJB, SOAP, JMS, Machine Learning, Angular Native, HTML, CSS, WebSocket, AWS, JDBC, Oracle, Log4J, Spring Security, WSDL.

**JavaJ2EE Developer**

**Brio Technologies Private Limited Hyd, India February 2015 to August 2016**

**Responsibilities:**

* Designed and implemented a secure **Electronic Health Record (EHR) system** using **HTML, CSS, JavaScript, and Angular JS**, ensuring efficient storage and management of patient health information.
* Developed patient registration features with **jQuery and Spring MVC**, allowing healthcare providers to efficiently create and manage patient profiles with essential information.
* Implemented an **appointment scheduling module** with **Spring Web Flow**, enabling online booking for patients and effective schedule management for healthcare providers.
* Integrated telemedicine features using **Angular JS and RESTful web services**, facilitating virtual consultations and remote monitoring. Implemented a **Clinical Decision Support System (CDSS)** to provide relevant medical knowledge for informed decision-making.
* Developed a **prescription management system** with **Angular JS, Spring MVC, and MySQL**. Integrated billing features with **Azure services**, supporting healthcare billing processes. Ensured robust security measures using **Spring Security**, ensuring compliance with healthcare regulations like HIPAA. Conducted regular security audits for continuous improvement.

**Environment:** HTML, CSS, JavaScript, Angular JS, jQuery, JSP, Spring MVC, Spring Web Flow, Azure, MySQL, RESTful web services, Eclipse IDE, Linux, HL7, FHIR, DICOM.

**Jr. Java Developer**

**Avon Technologies Pvt Ltd Hyd India June 2014 to January 2015**

**Responsibilities:**

* Spearheaded the development of a robust **Human Resource Management System (HRMS)** using **HTML, CSS, JavaScript, jQuery, JSP, Spring MVC, and Spring Web Flow**, ensuring a comprehensive and user-friendly solution.
* Managed the **MySQL database** for optimal data storage and retrieval, supporting critical HR functions such as employee information, attendance tracking, and payroll management. Successfully integrated the HRMS with external systems, including finance and accounting, using **RESTful web services**.
* Utilized **Eclipse IDE** for streamlined development workflows, ensuring code consistency and reliability. Worked in a **Linux environment**, optimizing the **HRMS for stability and security**. Implemented version control using **SVN** for collaborative development, enhancing team efficiency.

**Environment:** HTML, CSS, JavaScript, jQuery, JSP, HTTP, Spring MVC, Spring Web Flow, MySQL, RESTful web services, SVN, Eclipse IDE and Linux.

**EDUCATION:**

**Bachelor’s: -** Bachelors’ specialization in Computer Science from **JNTUH University, INDIA**. Year of Passing May 2014**.**