MANMADHARAO PATIBANDLA

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# PROFESSIONAL SUMMARY

# A Java Full Stack Developer with over 4 years of experience working with top companies like Pearson, Southwest Airlines, Berkshire Hathaway, and DXC Technology, passionate about creating seamless, high-performance web applications that elevate user experience and drive business growth.

# Adept at building scalable backend systems using Java, Spring Boot, and Hibernate, ensuring solid, reliable solutions that power business-critical applications.

# Skilled in developing dynamic, responsive front-end interfaces with React, Angular, and JavaScript, always aiming to make interactions smooth and enjoyable for users.

# Have hands-on experience in designing RESTful APIs that ensure smooth communication between different components of an application, keeping things running smoothly in the background.

# Played a key role in transitioning to a microservices architecture, making systems more flexible, scalable, and easier to maintain over time.

# Experienced in handling data with MySQL, PostgreSQL, and MongoDB, always looking for ways to optimize queries and speed up data retrieval for better performance.

# Passionate about automation, using Jenkins, Docker, and Kubernetes to streamline deployment processes and reduce manual errors, making releases faster and more reliable.

# Love collaborating with cross-functional teams, whether it’s working with designers to refine user interfaces or collaborating with business analysts to ensure technical solutions meet the real-world needs of users.

# Enjoy participating in code reviews, learning from peers, and sharing best practices to ensure high-quality, maintainable code across the board.

# Experienced in writing thorough unit and integration tests with JUnit and Mockito, helping ensure that the code is solid and resilient before it hits production.

# Always on the lookout for ways to optimize performance, identifying bottlenecks early on and making adjustments to keep systems running efficiently.

# Comfortable working in Agile environments, contributing to sprint planning, daily stand-ups, and retrospectives to keep projects moving forward smoothly.

# Prioritize security in all my work, implementing authentication, encryption, and data protection practices to ensure applications are safe for users.

# Focused on scalability, ensuring that systems can handle growing demand and new features without breaking down or slowing down.

# Take pride in documenting the technical journey, whether it’s system architecture or code changes, so future developers can easily understand and build on what’s been done.

# Proactive about monitoring system performance, identifying and solving issues before they become bigger problems, and ensuring smooth, continuous user experiences.

# Enjoy working with third-party APIs and services, integrating them to extend functionality and add value to applications.

# Take great satisfaction in delivering enterprise-level solutions that make a real difference, improving operations and driving customer satisfaction.

# Focused on building maintainable, flexible applications that can easily evolve, ensuring that systems grow alongside business needs.

# A strong believer in the power of teamwork and clear communication, always looking for ways to align technical solutions with business goals and user needs, while building relationships that make the development process smoother.

# TECHNICAL SKILLS

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| **Category** | **Skills** |
| **Programming Languages** | Java, JavaScript, SQL, Python |
| **Frontend Technologies** | ReactJS, Angular, JavaScript, HTML5, CSS3 |
| **Backend Technologies** | Java, Spring Boot, Spring MVC, Hibernate (ORM), J2EE (Servlets, JSP), RESTful APIs, Microservices |
| **Database Technologies** | MySQL, MongoDB, PostgreSQL, Oracle, DB2 |
| **Cloud Technologies** | AWS (EC2, S3, Lambda, API Gateway, CloudFormation), Microsoft Azure, Google Cloud Platform (GCP) |
| **Containerization & Orchestration, CI/CD** | Docker, Kubernetes, Jenkins, Helm, GitLab |
| **Version Control Tools** | Git, GitHub, BitBucket |
| **Testing & Documentation Tools** | JUnit, Mockito, Selenium, Postman, JMeter |
| **Code Quality & Monitoring** | SonarQube, Log4J, Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana) |
| **Security & Authentication** | OAuth2.0, JSON Web Tokens (JWT) |
| **Development Tools & IDEs** | IntelliJ IDEA, Eclipse, Visual Studio Code, Spring Tool Suite (STS), PyCharm |
| **Design Patterns & Architectural Styles** | Microservices, MVC, Serverless Architecture |
| **Web Services** | RESTful APIs, SOAP, API Gateway, Swagger, GraphQL |
| **Other** | XML, JSON, Linux/Unix |

# PROFESSIONAL EXPERIENCE

## 

## Client: Pearson

## Role: Java Full Stack Developer July 2024 – Present

## Collaborated closely with stakeholders to analyze business requirements and design optimal solutions.

## Architected and implemented microservices using Spring Boot, ensuring scalability and efficiency.

## Processed Kafka messages from various topics, enriching the data and storing it in MongoDB collections.

## Configured Logstash to parse and transform diverse log formats (JSON, XML, CSV) for structured data analysis.

## Developed RESTful endpoints (GET, POST, PUT) using Spring REST Services, enabling seamless communication.

## Created clear and concise Open API/Swagger documentation, improving API usability.

## Strengthened unit testing with JUnit and Mockito, ensuring high code quality.

## Integrated Logstash with Elasticsearch and Kibana, providing real-time data visualization and monitoring.

## Applied Drools engine for business rule validation, enhancing decision-making processes.

## Addressed and resolved SonarQube code quality issues to maintain clean and efficient code.

## Established inter-service communication with Feign Clients and RestTemplate, improving system interoperability.

## Conducted thorough API testing using Postman and Testfully, validating functionality and performance.

## Deployed Docker containers efficiently in AWS EKS, optimizing resource utilization.

## Automated file processing by reading data from AWS S3 using Lambda functions.

## Pushed and managed Docker images within AWS ECR, streamlining deployments.

## Monitored AWS CloudWatch logs and set up CloudWatch alarms for proactive system monitoring.

## Managed and optimized virtual machines on AWS EC2, ensuring high availability.

## Crafted interactive and user-friendly interfaces with ReactJS, TypeScript, Bootstrap, HTML5, and CSS, seamlessly integrating them with backend services using Axios.

## Enhanced application responsiveness by leveraging Kotlin coroutines for asynchronous programming.

## Handled failure messages efficiently through AWS SNS and SQS, ensuring reliable communication.

## Monitored system health using Grafana Dashboards, tracking trends and performance.

## Configured Grafana alerts to notify Active Directory groups about high CPU and memory usage.

## Adopted BDD (Behavior-Driven Development) using Cucumber framework, improving test coverage and collaboration.

## Built reactive services with Spring WebFlux and Mono, optimizing performance under high loads.

## Utilized Spring Schedulers to process Kafka messages, enrich data, and store it effectively.

## Developed modular and reusable ReactJS components using TypeScript and Arrow functions.

## Led the migration from Spring Boot 2.x to 3.x with Java 17, enhancing maintainability and performance.

## Deployed Redis Cache in AWS OpenShift (ROSA clusters) for efficient data retrieval.

## Implemented horizontal auto-scaling for pods based on CPU and memory usage, ensuring application stability.

## Established a CI/CD pipeline using Docker, Jenkins, and Bitbucket, streamlining deployments.

## Automated infrastructure provisioning with Terraform and AWS CloudFormation, optimizing cloud resource management.

**Environment:** Java8,11,17, Spring Boot, PostgreSQL, Reacts, Bootstrap, jQuery, Tomcat, Junit, Docker,

AWS, Microservices, Redis Cache, Redux, Apache Kafka, MongoDB.

## Client: Southwest Airlines

## Role: Full Stack Java Developer September 2023 – June 2024

## As a Full Stack Java Developer at Southwest Airlines, I contributed to building web applications that significantly improved customer experience and operational efficiency.

* Assessed business needs and devised efficient solutions to enhance system performance.
* Designed and implemented microservices architecture leveraging the power of Spring Boot.
* Streamlined data processing by consuming Kafka messages and storing structured information in MongoDB collections.
* Configured Logstash to efficiently parse and transform diverse log formats (JSON, XML, CSV) for better analytics.
* Developed and maintained RESTful services (GET, POST, PUT) to ensure seamless communication between applications.
* Documented APIs comprehensively using Open API/Swagger, improving developer collaboration.
* Strengthened unit testing practices with JUnit and Mockito, enhancing code reliability.
* Integrated Logstash with Elasticsearch and Kibana, enabling real-time monitoring and data visualization.
* Applied Drools engine for dynamic business rule validation, optimizing decision-making processes.
* Improved code quality by identifying and resolving issues flagged by SonarQube.
* Facilitated inter-service communication through Feign clients and RestTemplate.
* Conducted thorough API testing using Postman and Testfully for performance validation.
* Deployed Docker containers in AWS EKS, ensuring scalability and resilience.
* Automated file processing by retrieving data from AWS S3 via Lambda functions.
* Streamlined container management by pushing optimized images to AWS ECR.
* Monitored application health and logs in AWS CloudWatch, addressing performance bottlenecks.
* Configured CloudWatch alarms for proactive issue resolution and resource optimization.
* Managed virtual environments through AWS EC2, ensuring high availability.
* Engineered engaging and responsive user interfaces with HTML5, CSS, Bootstrap, JavaScript, ReactJS, and NodeJS, seamlessly integrating them with backend services via Axios.
* Enhanced application responsiveness with Kotlin coroutines, optimizing asynchronous operations.
* Ensured reliable message delivery through AWS SNS and SQS, improving fault tolerance.
* Monitored system health using Grafana Dashboards, identifying trends and anomalies.
* Implemented Grafana alerts to notify Active Directory groups about high resource consumption.
* Adopted BDD principles with Cucumber framework, improving test coverage and collaboration.
* Built reactive services with Spring WebFlux and Mono, optimizing performance under heavy loads.
* Processed Kafka streams with Spring Schedulers, enriching and storing data efficiently.
* Designed interactive components in ReactJS with TypeScript, utilizing Arrow functions for cleaner syntax.
* Upgraded legacy applications by migrating from Spring Boot 2.x to 3.x with Java 17, enhancing maintainability.
* Optimized caching strategies with Redis, deploying high-performance services on AWS OpenShift (ROSA clusters).
* Implemented auto-scaling mechanisms based on resource utilization, ensuring optimal performance.
* Streamlined development workflows by setting up a CI/CD pipeline using Docker, Jenkins, and Bitbucket.
* Provisioned and managed cloud resources with Terraform and AWS CloudFormation, automating infrastructure deployment.

**Environment:** Java 8/11/17, Spring Boot, Microservices, Apache Kafka, Redis Cache, PostgreSQL, AWS

MongoDB, ReactJS, Redux, Bootstrap, jQuery, Tomcat, JUnit, and Docker.

## Client: Berkshire Hathaway

## Role: Java Developer January 2022 – June 2023

## Played a key role in developing and enhancing enterprise applications, ensuring smoother business operations and improved system efficiency.

## Designed and built RESTful APIs using Java, Spring Boot, and Hibernate, enabling seamless communication between various services and external systems.

## Optimized MySQL and PostgreSQL queries, significantly improving database performance and speeding up data retrieval for a better user experience.

## Contributed to designing a scalable microservices architecture, making it easier to integrate new features, maintain stability, and support business growth.

## Developed and maintained robust back-end logic, ensuring applications were both secure and high-performing.

## Wrote and executed unit tests using JUnit and Mockito, ensuring code reliability, reducing bugs, and preventing unexpected failures in production.

## Automated the CI/CD pipeline using Jenkins and Docker, improving deployment speed, reducing manual intervention, and making software releases more efficient.

## Collaborated closely with cross-functional teams, including developers, testers, business analysts, and DevOps engineers, to deliver high-quality solutions within Agile sprints.

## Actively participated in daily stand-ups, sprint planning, and retrospectives, fostering a transparent and collaborative development environment.

## Conducted code reviews, providing constructive feedback to enhance code quality, maintainability, and adherence to best practices.

## Worked on performance tuning and system optimization, identifying bottlenecks and improving application responsiveness.

## Contributed to debugging and troubleshooting complex production issues, ensuring smooth and uninterrupted system functionality.

## Implemented error handling and logging strategies, making debugging and monitoring more efficient.

## Focused on scalability, security, and reliability, ensuring that applications met long-term business needs while handling increasing data loads.

## Helped mentor junior developers, sharing best practices, reviewing their code, and assisting with problem-solving.

## Played an essential role in enhancing system reliability and ensuring seamless business continuity, supporting the company’s long-term success.

## Environment: Java 8/11, Spring Boot, Microservices, Hibernate, MySQL, PostgreSQL, JUnit, Mockito, CI/CD

## Jenkins, Docker, Agile.

## Client: DXC Technology

## Role: Java Developer September 2020 – December 2021

## As a Software Developer at DXC Technology, I contributed to building both backend and frontend solutions that helped improve the scalability and performance of key applications.

## Designed and built Java-based applications using Spring Boot and Hibernate, ensuring the backend was both robust and scalable for enterprise needs.

## Developed user-friendly interfaces with React and Angular, making the applications more intuitive and enjoyable for users to interact with.

## Created RESTful APIs to ensure seamless communication between different system components, making the whole system work together smoothly.

## Worked with MySQL and MongoDB to handle data efficiently, optimizing both SQL and NoSQL solutions for faster storage and retrieval.

## Was involved in the full software development life cycle (SDLC), from the initial design and coding to deployment and maintenance, ensuring the applications kept evolving.

## Took part in code reviews to ensure the team maintained high-quality code, always taking feedback seriously to make improvements and optimize performance.

## Developed unit and integration tests with JUnit and Mockito, making sure the applications were reliable and reducing the chances of bugs affecting users.

## Worked closely with cross-functional teams in an Agile environment, participating in sprint planning, daily stand-ups and ensuring the project stayed on track to meet deadlines.

## Contributed to creating high-performing applications that improved business operations, making processes smoother and more efficient for the company.

## Focused on keeping the applications easy to maintain, making sure the code was clean and flexible for future changes.

## Environment: Java 8/11, Spring Boot, Hibernate, MySQL, MongoDB, RESTful APIs, React, Angular, JUnit, Mockito, Agile.

## Client: DXC Technology

## Role: Software Developer Intern March 2020 – August 2020

## Started my journey as a Software Developer Intern, gaining hands-on experience with real-world web applications.

## Helped build backend solutions using Java and the Spring Framework, laying the groundwork for my growth as a developer.

## Improved user interfaces with HTML, CSS, and JavaScript, making applications more user-friendly and visually appealing.

## Worked on debugging and optimizing code, fixing performance issues and ensuring everything ran smoothly.

## Learned from senior developers, taking part in unit testing and code reviews to understand how to write clean, easy-to-maintain code.

## Gained experience with databases, writing SQL queries to support applications and keep data flowing smoothly.

## Worked in an Agile environment, contributing to tasks, attending daily stand-ups, and seeing how projects move forward in a team setting.

## Built a strong foundation in software development, improving my technical skills and learning how to solve problems and collaborate with others.

## This internship was a great learning experience that helped me grow and get ready for a career in software development.

## Environment: Java, Spring Framework, HTML, CSS, JavaScript, SQL, Agile.

# EDUCATION

**Concordia University, St. Paul, College of Business and Technology**

*Master of Science in Information Technology Management*

**Bapatla Engineering College**

*Bachelor of Technology in Mechanical Engineering*