AKSHAY KATLA

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PROFESSIONAL SUMMARY

- Over **5+ years** of experience in designing, developing, and deploying **full-stack web applications** using Java, Spring Boot, React.js, and modern web technologies.
- Expertise in building **scalable, high-performance backend services** using **Spring Boot, RESTful APIs, and microservices architecture**.
- Proficient in **React.js, JavaScript, TypeScript, HTML, and CSS**, creating interactive, responsive, and user-friendly front-end applications.
- Strong experience in **database management (MySQL, PostgreSQL, SQL Server)**, including schema design, query optimization, and data migration.
- Implemented **authentication and authorization** using **Spring Security, OAuth 2.0, and JWT tokens** to ensure secure access control.
- Developed and integrated **RESTful and GraphQL APIs** for seamless communication between front-end and back-end services.
- Experience in **real-time data streaming** using **WebSockets** for live updates in financial applications and monitoring dashboards.
- Worked extensively with **AWS cloud services (EC2, S3, RDS, Lambda, API Gateway)** for application deployment and scalability.
- Hands-on experience in **Docker and Kubernetes** for containerized deployments and efficient application management.
- Implemented **CI/CD pipelines** using **Jenkins, Azure DevOps, and GitHub Actions** to automate build, test, and deployment processes.
- Designed and developed **data visualization features** using **Chart.js, D3.js, and other graphing libraries** to present analytical insights.
- Integrated **payment gateways** and third-party APIs for e-commerce and financial applications.
- Experience in **performance optimization**, reducing API response times through caching, indexing, and database tuning.
- Expertise in **Agile and Scrum methodologies**, actively participating in sprint planning, stand-ups, and code reviews.
- Strong debugging and troubleshooting skills, using **log monitoring tools like ELK Stack, Splunk, and Azure Application Insights**.
- Developed secure **HIPAA-compliant healthcare applications** for claims management, ensuring data privacy and compliance.
- Built **fraud detection algorithms** using data analytics for identifying suspicious activities in financial transactions.
- Strong problem-solving skills with a focus on delivering **scalable, maintainable, and efficient applications**.
- Excellent collaboration with **cross-functional teams**, working closely with stakeholders, designers, and QA teams to ensure smooth project execution.

TECHNICAL SKILLS

Category	Technologies & Tools
Programming Languages	Java, JavaScript, TypeScript
Frontend Technologies	React.js, Redux, HTML5, CSS3, Bootstrap, Tailwind CSS, JavaScript (ES6+)
Backend Technologies	Java (Spring Boot, Spring MVC, Spring Security), RESTful APIs, Microservices Architecture
Database Management	MySQL, PostgreSQL, MongoDB, SQL, PL/SQL, Hibernate, JPA
Cloud & Deployment	AWS (EC2, S3, RDS, Lambda), Docker, Kubernetes, CI/CD (Jenkins, Azure DevOps), Heroku, Apache Tomcat
Authentication & Security	JWT, OAuth2, Spring Security, Role-Based Access Control (RBAC), CSRF Protection
Development Tools & Version Control	Git, GitHub, Bitbucket, GitLab, Maven, Gradle, Postman, Swagger
Real-Time Data & Messaging	WebSockets, Kafka, RabbitMQ
Testing Frameworks	JUnit, Mockito, Selenium
Methodologies & Best Practices	Agile (Scrum, Kanban), Test-Driven Development (TDD), Design Patterns, SOLID Principles, CI/CD Pipelines

PROFESSIONAL EXPERIENCE:

Client: PWC, Chicago   **Jun 2024 - Present**
Role: Java Full Stack Developer
Responsibilities:

- Designed and developed a **full-stack web application** for a client in the **financial services** industry to track real-time portfolio performance, transactions, and financial insights.
- Developed the **frontend** using **React.js** to create an interactive and user-friendly interface for clients to view their investment details and financial data.
- Built the **backend** using **Java** with **Spring Boot** to handle API requests, business logic, and data processing.
- Integrated **RESTful APIs** to allow real-time communication between the frontend and backend, ensuring smooth data updates.
- Utilized **JavaScript** and **CSS** to ensure a responsive, mobile-friendly user experience across devices.
- Managed and implemented data storage using **MySQL**, designing efficient database schemas and writing SQL queries to handle transaction data and financial records.
- Integrated **authentication and authorization** using **Spring Security** with **JWT tokens** to ensure secure login and access control to sensitive client data.

- Implemented **real-time data streaming** using **WebSockets** to provide clients with live market updates and portfolio value changes.
- Incorporated **data visualization** tools like **Chart.js** to display financial performance trends through interactive graphs and charts.
- Deployed the application using **AWS** to ensure scalability, reliability, and secure access.
- Collaborated with **cross-functional teams** at PwC to define business requirements, design features, and ensure seamless integration of new features.
- Followed **Agile methodologies**, participating in **daily stand-ups**, **sprint planning**, and **code reviews** to ensure timely delivery of features.

Client: Mitchell International, San Diego, CA   **Feb 2023 - May 2024**
Role: Java Full Stack Developer
Responsibilities:

- Developed a **Spring Boot-**based web application using **Java** to manage workers' compensation healthcare claims, allowing insurance adjusters and medical providers to handle claims efficiently.
- Created interactive dashboards using **React.js**, **Redux**, and **TypeScript**, integrating them with backend **Spring Boot REST APIs** to display real-time claim data.
- Integrated with Mitchell's medical bill review services using **Spring WebClient** (part of Spring WebFlux) to handle asynchronous API calls for processing and approving medical bills.
- Designed a **Spring Boot Workflow Engine** to automate medical claim validation and approval, reducing manual work and improving claim processing speed.
- Implemented secure user authentication and authorization using **Spring Security** with **JWT (JSON Web Tokens)** to ensure that only authorized users can access sensitive medical data.
- Built a **document upload module** using **Spring Boot** and **AWS S3 SDK**, allowing healthcare providers to submit invoices, medical reports, and other documents related to claims.
- Developed a **real-time claim tracking feature** using **Spring WebSockets** and **STOMP messaging** to provide claimants with live updates on their claim status, approved treatments, and payments.
- Integrated **fraud detection algorithms** using **Java Streams API**, **Apache Kafka**, and **Spring Batch**, analyzing claim patterns and identifying suspicious or fraudulent claims in real time.
- Stored claim data, medical records, and invoices in a **HIPAA-compliant PostgreSQL database,** utilizing **Spring Data JPA** and **Hibernate** for efficient data management.
- Deployed the application to **AWS (EC2, S3, RDS, Lambda)** using **Docker and Kubernetes**, ensuring scalability, security, and availability.
- Set up **CI/CD pipelines** using **Jenkins**, **GitHub Actions**, and **Maven**, automating build, test, and deployment processes for faster and more reliable software releases.
- Followed **Agile methodologies** by participating in daily stand-ups, sprint planning, code reviews, and retrospectives to ensure timely feature delivery and continuous improvement.
- Utilized **Git and GitHub** for version control, following best practices such as **branching strategies, pull requests, and code reviews** to maintain clean and well-documented source code.
- **Optimized API performance** by implementing caching mechanisms (Redis) and query optimizations, reducing response times by 40% and improving application efficiency.
- **Conducted unit and integration testing** using JUnit and Mockito, achieving 90%+ test coverage to ensure robust and error-free application functionality.

Client: F5, Inc. Hyderabad, India   **May 2021 - Dec 2022**
Role: Java Full Stack Developer
Responsibilities:

- Developed a **full-stack web application** using **Java (Spring Boot)** for **backend** and **React.js** for **frontend**.
- Designed a user-friendly interface with a **book catalog**, **search functionality**, and **cart management system.**
- Implemented a **RESTful API** for **user authentication**, **book management,** and **order processing**.
- Used **PostgreSQL** as the database to store **books**, **users,** and **order details**.
- Added **user authentication** and **authorization using Spring Security** and **JWT for secure access**.
- Built an **admin dashboard** to allow bookshop owners to **add, edit**, and **delete books**.
- Implemented **session-based cart management** to allow users to add books to the cart before checkout.
- Integrated **payment gateway simulation** to handle online transactions.
- **Used Docker** and **Docker Compose** for **containerized deployment** and **local development setup**.
- **Version-controlled** the project using **Git** and **GitHub**, following best practices for collaboration.
- Deployed the application on **AWS (EC2)**, making it accessible online.
- Followed **Agile development** methodologies, participating in code reviews and weekly **sprint discussions**.

Client: MAQ Software, Hyderabad, India   **Jul 2019 - Apr 2021**
Role: Java Full Stack Developer
Responsibilities:

- Developed high-quality **web applications** using **Java, Spring Boot (Backend), and React.js (Frontend)** to ensure efficient and scalable performance.
- Analyzed **business requirements** from stakeholders and proposed **scalable, optimized solutions** during design discussions.
- Implemented responsive UI components using **React.js**, ensuring accessibility compliance and enhanced **user experience**.
- **Migrated three microservices** between different environments and tenants, refactoring services using **Spring Boot & RESTful APIs** for improved scalability.
- Developed **multiple console applications** using **Java** for **data transformation and migration** tasks, optimizing data processing performance.
- Used **Azure DevOps for CI/CD pipeline automation** and **Git** for source code versioning and collaborative development.
- Investigated and fixed critical bugs by querying logs from **Azure Application Insights**, ensuring seamless application functionality.
- Integrated third-party **APIs** into the system, improving overall system interoperability.
- Followed the **Agile SCRUM methodology**, participating in sprint planning, daily stand-ups, and retrospective meetings to ensure smooth project execution.
- Focused on **performance optimization**, reducing **API** response times through caching and database indexing techniques.

EDUCATION:

Master of Science, Computer Science |University of Dayton, USA