YOGIRAM KOTAPARTHI

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Professional Summary:

- Over 8 years of proven experience as a **Java Full Stack Developer** delivering scalable, maintainable, and secure web applications in **healthcare**, **banking**, **automotive**, and **enterprise** sectors.
- Expert in **Java (8, 11, 17)** with advanced knowledge of **Spring Boot**, **Spring MVC**, **Spring Security**, **Hibernate**, and **JPA** for backend development and microservices.
- Designed and implemented **RESTful APIs** with best practices, ensuring seamless integration with frontend and third-party services.
- Secured applications using **OAuth 2.0**, **JWT**, and **Spring Security** to enforce authentication and authorization policies.
- Developed highly responsive and dynamic user interfaces with **ReactJS**, **Angular (6 to 12)**, **Redux**, **TypeScript**, **HTML5**, **CSS3**, **Bootstrap**, and **Tailwind CSS**.
- Skilled in **database design**, query optimization, and writing complex **SQL** and **PL/SQL** queries on **PostgreSQL**, **MySQL**, **Oracle**, **DB2**, and **MongoDB**.
- Proficient in implementing **microservices architecture** with containerized deployment using **Docker** and orchestration via **Kubernetes** and **Helm**.
- Experienced in building and managing **CI/CD pipelines** using **Jenkins**, **GitHub Actions**, **GitLab CI**, and **Maven** for automated testing and deployment.
- Integrated asynchronous messaging systems with **Apache Kafka**, **JMS**, **ActiveMQ**, and **AWS SQS** to enable scalable, event-driven communication.
- Applied **Test-Driven Development (TDD)** practices using **JUnit 5** and **Mockito**, achieving robust test coverage and reducing defects.
- Automated frontend and API testing using **Selenium**, **Postman**, and performance testing with **JMeter** to ensure reliability.
- Configured monitoring and alerting solutions using the **ELK Stack (Elasticsearch, Logstash, Kibana)**, **Prometheus**, and **Grafana** for proactive incident management.
- Utilized version control tools including **Git**, **GitHub**, **GitLab**, **Bitbucket**, and **SVN** within Agile Scrum teams for efficient collaboration.
- Participated in Agile ceremonies like **Sprint Planning**, **Daily Standups**, **Retrospectives**, and **Backlog Grooming** using **JIRA** and **Confluence**.
- Deployed and maintained enterprise applications on **Apache Tomcat** and **JBoss**, ensuring high availability and performance.
- Conducted detailed **code reviews** enforcing clean code, design patterns (MVC, DAO, Singleton), and SOLID principles to maintain code quality.
- Mentored junior developers, leading technical discussions and driving continuous learning and best practice adoption.
- Migrated monolithic systems to **microservices**, improving modularity, scalability, and deployment velocity.
- Implemented **feature flagging** frameworks enabling gradual rollouts and quick feature toggling.

- Leveraged **GraphQL** for efficient client-side data fetching and bandwidth optimization.
- Managed database versioning and migrations with **Liquibase** and **Flyway**, ensuring smooth production upgrades.
- Collaborated with UI/UX teams to deliver **accessible**, **mobile-first** designs adhering to modern web standards.
- Tuned JVM performance and optimized garbage collection settings for enhanced backend efficiency during peak loads.
- Developed secure software solutions compliant with **HIPAA**, **PCI-DSS**, **SOX**, and other regulatory standards.
- Automated cloud infrastructure provisioning with **AWS CloudFormation**, ensuring consistent and scalable deployments.
- Deployed applications and managed services on **AWS (EC2, S3, Lambda, API Gateway)**, **Azure**, and **Google Cloud Platform (GCP)**.
- Integrated third-party APIs and external systems securely, ensuring data privacy and compliance.
- Utilized logging frameworks like **Log4J** and monitoring tools to maintain production system health and quickly troubleshoot issues.
- Demonstrated strong communication skills, collaborating effectively across **cross-functional teams** including product management, QA, and DevOps.
- Continuously researched and adopted emerging tools and frameworks to improve application **performance**, **security**, and **maintainability**.

Technical Skills

Methodologies	Agile (Scrum, Kanban), Software Development Life Cycle (SDLC), Waterfall, Test-Driven Development (TDD)
Programming Languages	Java (8, 11, 17), JavaScript, TypeScript, SQL, C, C++, Python
Frontend Technologies	HTML5, CSS3, Bootstrap, Tailwind CSS, JSP, ReactJS, Redux, AngularJS, Angular 6/12, NodeJS
Backend Technologies	Spring Framework (Spring Boot, Spring MVC, Spring Security, Spring Data JPA), Hibernate (ORM), J2EE (Servlets, JSP), RESTful APIs, Microservices Architecture, JMS, JDBC
Messaging and Streaming Systems	Apache Kafka, JMS, ActiveMQ, AWS SQS
Database Technologies	PostgreSQL, MySQL, Oracle, DB2, MongoDB
Cloud Technologies	Amazon Web Services (AWS EC2, S3, SQS, Lambda, API Gateway, CloudFormation), Microsoft Azure, Google Cloud Platform (GCP)
Containerization and Orchestration. CI/CD	Docker, Kubernetes, Helm, Jenkins, GitHub Actions, GitLab CI, Maven
Version Control Tools	Git, GitHub, GitLab, Bitbucket, SVN

APIDocumentation and Testing Tools	JUnit 4/5, Mockito, Selenium, Postman, JMeter, Swagger (OpenAPI)
Code Quality and Monitoring	SonarQube, ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana, Log4J
Security and Authentication	OAuth 2.0, JWT (JSON Web Tokens), Spring Security, TLS/SSL
Development Tools and IDEs	IntelliJ IDEA, Eclipse, Spring Tool Suite (STS), Visual Studio Code, PyCharm, Anaconda
Design Patterns and Architectural Styles	MVC, Microservices, Serverless Architecture, DAO, Singleton, Factory, Observer
Web Services	RESTful APIs, SOAP, Swagger, API Gateway, GraphQL
Other	XML, JSON, Design Patterns, Linux/Unix, Apache Tomcat, JIRA, Confluence

Professional Experience:

Client: Ford Motor Company, Michigan, USA   **DEC 2024 – PRESENT**
Role: Java Full Stack Developer
Responsibilities:

- Developed scalable and fault-tolerant backend microservices with **Java 17** and **Spring Boot**, supporting critical automotive business processes.
- Created dynamic and responsive user interfaces using **ReactJS** and **TypeScript**, improving driver and dealer portal usability.
- Designed and integrated **RESTful APIs** to enable efficient data exchange between vehicle systems, backend services, and frontend applications.
- Implemented secure authentication and authorization mechanisms using **Spring Security**, **OAuth 2.0**, and **JWT**, safeguarding sensitive vehicle and customer data.
- Optimized complex queries and database schemas in **PostgreSQL**, reducing data retrieval latency and improving application responsiveness.
- Maintained high test coverage by developing unit and integration tests using **JUnit 5** and **Mockito**, minimizing production defects.
- Utilized **Docker** to containerize microservices and managed orchestration through **Kubernetes**, ensuring high availability and scalability.
- Integrated **Apache Kafka** for real-time streaming and asynchronous communication, enhancing telemetry data processing capabilities.
- Configured centralized logging, monitoring, and alerting using the **ELK Stack (Elasticsearch, Logstash, Kibana)**, streamlining incident diagnosis.
- Applied frontend performance improvements such as code splitting and lazy loading in **ReactJS**, resulting in faster page load times.
- Developed reusable and maintainable frontend components using **React Hooks** and modular design patterns.
- Automated batch processing with **Spring Batch**, efficiently handling large-scale data synchronization between vehicle and backend systems.
- Leveraged **Spring AOP** to standardize exception handling and logging across distributed microservices.

- Led the migration from monolithic systems to microservices, improving deployment frequency and reducing system downtime.
- Utilized **GraphQL** to optimize client data requests, reducing bandwidth usage and enhancing frontend flexibility.
- Enabled feature toggling with feature flag frameworks, facilitating controlled releases and quick rollbacks.
- Partnered with UI/UX teams employing **Tailwind CSS** to deliver accessible, mobile-first web interfaces.
- Managed database schema versioning and migrations with **Liquibase**, ensuring seamless deployment of data changes.
- Built and validated complex client-side forms using **Formik** and **Yup**, improving data integrity and user input validation.
- Tuned JVM parameters and optimized garbage collection to enhance backend performance during peak usage.
- Mentored junior developers on clean coding standards, automated testing, and Agile best practices.
- Implemented API throttling and rate limiting to prevent service overload and ensure consistent system uptime.
- Integrated external automotive data services securely, enriching platform capabilities while maintaining compliance with industry standards.
- Established automated CI/CD pipelines using **Jenkins**, **Maven**, and **GitHub Actions**, accelerating release cycles and reducing manual errors.
- Leveraged **AWS EC2**, **S3**, and **RDS** for hosting, storage, and database management, supporting a highly available cloud infrastructure.

Client: Bank of America, Charlotte, NC, USA   **Duration: OCT 2023 – NOV 2024**
Role: Java Full Stack Developer
Responsibilities:
- Engineered scalable and secure **microservices** using **Java 11**, **Spring Boot**, and **Spring Cloud**, supporting loan processing and customer account management modules.
- Developed intuitive **UI components** using **ReactJS**, **Redux**, and **TypeScript**, reducing onboarding time by 25% through enhanced user experience.
- Integrated **OAuth2**, **JWT**, and **LDAP** for secure single sign-on (SSO) across internal banking portals, aligning with **banking security standards (SOX, GLBA)**.
- Designed and documented **RESTful APIs** with Swagger/OpenAPI for internal and external client use, ensuring API reusability and contract-first development.
- Leveraged **Apache Kafka** to implement asynchronous processing for credit checks, document uploads, and notification services, improving throughput and resilience.
- Optimized **SQL queries and stored procedures** in **Oracle DB**, reducing response times for high-frequency trading reports by 40%.
- Applied **Redis** for caching frequent data queries like currency rates and customer profiles, lowering DB hits and improving UI response times.
- Built containerized applications with **Docker**, orchestrated with **Kubernetes** on **AWS EKS**, enabling zero-downtime blue/green deployments.
- Maintained **CI/CD pipelines** with **GitLab CI**, **Maven**, and **SonarQube** for static code analysis, improving build quality and release efficiency.
- Conducted **unit and integration testing** with **JUnit 5**, **Mockito**, and **Cypress**, achieving 92% code coverage across modules.
- Implemented logging and monitoring using **ELK Stack** and **Prometheus + Grafana**, allowing proactive system health checks and alerts.
- Migrated legacy JSP-based modules to a modern React-based SPA, reducing technical debt and improving maintainability.
- Enforced **Spring Security** and **HTTPS/TLS configurations** for secure data transmission in customer and transaction workflows.

- Managed **Flyway-based DB migrations** across dev, QA, and prod environments to ensure schema consistency.
- Participated in **Agile ceremonies** (Scrum) and collaborated with cross-functional teams using **JIRA**, **Confluence**, and **Bitbucket**.
- Created reusable **AngularJS wrappers** for internal CRM tools during the platform modernization phase.
- Coordinated with **Business Analysts**, **QA**, and **DevOps** teams to align releases with regulatory updates (e.g., Basel III, AML policies).
- Mentored junior developers in full-stack development best practices and conducted peer code reviews to uphold code quality.

Client: InfoNova Systems, Chicago, IL, USA   **NOV 2021 – AUG 2023**
Role: Software Developer
Responsibilities:
- Designed and developed **RESTful APIs** using **Java 8/11** and **Spring Boot**, enabling efficient data exchange and integration across multiple services.
- Implemented responsive and dynamic web interfaces using **Angular 6/12**, **TypeScript**, **HTML5**, and **CSS3**, improving user engagement and accessibility.
- Optimized complex **SQL queries**, indexes, and stored procedures in **MySQL** and **PostgreSQL**, improving database performance by up to 30%.
- Collaborated in Agile teams following **Scrum** methodology, actively participating in sprint planning, daily standups, retrospectives, and demos.
- Built and maintained automated **CI/CD pipelines** using **Jenkins** and **Maven**, reducing deployment times and increasing release frequency.
- Wrote comprehensive unit and integration tests using **JUnit 5** and **Mockito**, achieving over 85% code coverage and reducing bugs in production.
- Utilized **Git** and **GitHub** for version control and code collaboration, adhering to **GitFlow** branching strategy to streamline feature development.
- Implemented authentication and authorization using **Spring Security**, **OAuth 2.0**, and **JWT**, ensuring secure access control.
- Refactored legacy applications to enhance code maintainability and scalability, applying **SOLID principles** and design patterns.
- Developed reusable Angular components and services, promoting consistent UI design and faster development cycles.
- Conducted code reviews and provided constructive feedback to team members, improving overall code quality and knowledge sharing.
- Assisted in deploying Java applications on **Apache Tomcat** and monitored logs with **Log4J** for proactive issue resolution.
- Participated in requirement analysis sessions, translating business needs into technical specifications and user stories.
- Created clear API documentation using **Swagger/OpenAPI**, facilitating seamless integration between front-end and back-end teams.
- Automated routine tasks and environment setup scripts using shell scripting and build automation tools.
- Supported troubleshooting and debugging efforts for production issues, utilizing log analysis tools to identify root causes quickly.
- Collaborated closely with QA engineers to define test cases and validate bug fixes, improving product quality.
- Assisted in the migration of applications to cloud platforms such as **AWS EC2** and **S3**, improving scalability and availability.
- Designed error handling and logging mechanisms that enhanced system reliability and easier maintenance.

- Monitored application performance metrics and identified optimization opportunities to improve response times.
- Integrated third-party APIs and services, expanding application functionality and improving user experience.
- Participated in cross-team knowledge sharing and training sessions, fostering a collaborative learning environment.
- Developed and maintained database schema using SQL scripts, ensuring consistency across development, staging, and production environments.
- Applied best coding practices and followed company security guidelines to ensure application compliance and data protection.
- Engaged in continuous learning and self-development to keep up with emerging technologies and industry trends.

Hexaware Technologies, Chennai, India   **JAN 2020 – OCT 2021**
Role: Java Full Stack Developer
Responsibilities:

- Built high-performing full-stack applications using **Java 8**, **Spring Boot**, and **Hibernate**, focusing on clean architecture, scalability, and long-term maintainability.
- Developed dynamic, modular user interfaces with **Angular 6**, **TypeScript**, **HTML5**, and **CSS3**, ensuring responsive designs across desktop and mobile platforms.
- Designed and consumed **RESTful APIs** to enable seamless communication between distributed services and frontend components.
- Implemented secure authentication and authorization using **Spring Security**, **OAuth 2.0**, and **JWT**, safeguarding sensitive user data.
- Optimized data retrieval by writing advanced **SQL queries**, stored procedures, and views in **PostgreSQL** and **Oracle**, reducing query latency by 30%.
- Practiced **Test-Driven Development (TDD)** by building unit and integration tests with **JUnit** and **Mockito**, achieving over 90% code coverage.
- Used **Git** and **Bitbucket** for version control, following **Gitflow** to manage feature branches, code reviews, and collaborative development.
- Automated build, test, and deployment processes using **Maven**, **Jenkins**, and shell scripts, supporting continuous integration and delivery pipelines.
- Participated in all phases of the **Agile Scrum** lifecycle, including sprint planning, daily stand-ups, retrospectives, and demos.
- Collaborated with cross-functional teams including QA, product owners, and UX designers to refine features and align with business goals.
- Deployed and monitored applications on **Apache Tomcat**, using **Log4j** and **custom log parsers** to identify issues and ensure uptime.
- Documented API endpoints using **Swagger/OpenAPI**, improving transparency and communication between frontend and backend teams.
- Integrated external REST APIs and third-party services (e.g., geolocation, email, SMS) to expand application capabilities.
- Refactored legacy monolithic codebases into **modular microservices**, improving maintainability and deployment flexibility.
- Created reusable Angular services, interceptors, and pipes to reduce code duplication and enhance

maintainability.

- Designed user role and permission management modules, enabling admin-level control over content and system access.
- Developed database migration scripts and managed schema changes using **Flyway**, ensuring consistency across environments.
- Performed load and performance testing using **Postman** and **JMeter**, identifying and resolving bottlenecks before release.
- Participated in peer code reviews, providing constructive feedback to improve code quality and maintain coding standards.
- Conducted UAT support and defect triaging during production deployments, ensuring smooth release rollouts and minimal downtime.

Client: Apollo Hospitals, Hyderabad, India   **FEB 2018 – DEC 2019**
Role: Java Full Stack Developer
Responsibilities:

- Developed and maintained **Spring Boot** microservices compliant with **HIPAA** and Indian **IT Act** regulations for secure **electronic health records (EHR)** management.
- Built responsive user interfaces using **Angular 8**, **TypeScript**, **HTML5**, and **CSS3**, improving usability for healthcare professionals.
- Designed and exposed secure **RESTful APIs** to integrate hospital management with third-party **lab**, **pharmacy**, and **insurance** systems.
- Implemented **role-based access control (RBAC)** using **Spring Security**, **OAuth 2.0**, and **JWT** to safeguard patient data confidentiality.
- Optimized **PostgreSQL** and **Oracle** databases by writing advanced queries, stored procedures, and indexes, enhancing data retrieval efficiency.
- Utilized **Apache Kafka** for event-driven architecture enabling real-time appointment scheduling and patient notification workflows.
- Developed comprehensive **unit and integration tests** using **JUnit** and **Mockito**, achieving over **90% code coverage** and reducing production defects.
- Collaborated with QA teams to perform manual and automated testing using **Selenium** and **Postman**, ensuring software quality and regulatory compliance.
- Automated **CI/CD** pipelines with **Jenkins**, **Maven**, and **Docker**, streamlining deployment processes across environments.
- Containerized applications using **Docker** and managed orchestration with **Kubernetes**, achieving high availability and scalability.
- Configured real-time monitoring and alerting via the **ELK Stack (Elasticsearch, Logstash, Kibana)** and **Prometheus** for proactive issue resolution.
- Engaged with clinical and business analysts to gather requirements and design technical solutions aligned with healthcare standards.
- Applied **Agile Scrum** methodologies, participating in sprint planning, daily standups, retrospectives, and backlog grooming.
- Refactored legacy monolithic healthcare systems into **microservices architecture**, improving maintainability and deployment speed.
- Developed reusable Angular components and services to ensure consistent UI/UX across patient and staff portals.

- Maintained secure application configurations using **Spring Profiles** for development, staging, and production environments.
- Leveraged **Swagger/OpenAPI** for clear API documentation, facilitating seamless integration between front-end and back-end teams.
- Managed database schema migrations using **Flyway**, ensuring smooth and consistent upgrades across all environments.
- Provided mentorship to junior developers on **Java Full Stack** technologies, security best practices, and healthcare domain knowledge.
- Ensured adherence to software development best practices including **SOLID principles**, **TDD**, and clean code standards to enhance product quality.

Certifications:

- Java web application development internship
- Java full stack developer

Education:

Master of Science, Computer Science |Central Michigan university, USA
Bachelors in Technology, Computer Science | J.B institute of engineering and technology, India