AKANKSHA PAWAR
Full Stack Developer

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SUMMARY

- **Full Stack Developer with 4 years of experience** designing and deploying **cloud-native enterprise applications** across banking, healthcare, and public service domains.
- Strong in **Java, Spring Boot, React, TypeScript, and Python** with proven ability in **microservices, REST APIs, and event-driven systems (Kafka, RabbitMQ)**.
- Skilled in **database optimization (PostgreSQL, MongoDB)**, **CI/CD automation (Jenkins, GitHub Actions, Docker, Kubernetes)**, and **cloud platforms (AWS, Azure, GCP)**.
- Experienced in **OAuth 2.0, JWT, RBAC**, and compliance-driven systems aligned with **PCI-DSS, HIPAA, and GDPR**.
- Adept at **performance tuning, real-time data processing,** and **system observability** using **Prometheus and Grafana**.
- Strong communicator and collaborator in **Agile/Scrum** environments with hands-on experience in **system design** and **cross-functional delivery.**

EXPERIENCE

(CLIENT: CITIBANK) TCS, USA – FULL STACK DEVELOPER   OCT 2024 – PRESENT

- **Architected** Java **Spring Boot microservices** for retail banking, integrating modular service components for loan and credit workflows handling **1.5M+ daily transactions**, reducing **processing latency by 30%**.
- **Developed** responsive **React + TypeScript dashboards** for account management, improving UI responsiveness and analytics for **100K+ monthly users** across **10+ backend systems**.
- **Designed** and deployed **RESTful APIs** and **Kafka-based event streams**, improving data synchronization and **transaction reliability across multiple banking services**.
- **Optimized** PostgreSQL **queries and indexes**, cutting audit report generation time by **35%** while maintaining **PCI-DSS compliance** for sensitive financial data.
- **Deployed** microservices on **AWS EKS and EC2** with **Docker, Kubernetes, and CloudFormation**, ensuring **high availability and multi-region scalability**.
- **Integrated** monitoring through **Prometheus, Grafana, and AWS CloudWatch**, reducing **MTTR by 20%** and improving system observability across **50+ internal apps**.

ABBOTT, USA – SOFTWARE DEVELOPER   JAN 2023 – JUN 2023

- **Developed** and deployed **Spring Boot microservices** for Abbott's **cardiovascular diagnostics** system, processing **50K+ daily telemetry requests** with **HIPAA-compliant data handling**.
- **Built** an interactive **React clinical portal** for diabetes care, streamlining clinician workflows and saving **2–3 hours weekly** through real-time dashboards.
- **Provisioned AWS S3, Route 53, and CloudWatch** for nutritional product data management, maintaining **200K+ records** with **99.9% uptime**.
- **Optimized** PostgreSQL schema and queries, reducing **report generation time by 60%** for neuromodulation telemetry analytics.
- **Implemented Kafka pipelines** for real-time diagnostic synchronization, cutting **data latency from 15 mins to 5 mins** and improving decision accuracy.
- **Automated** CI/CD pipelines using **Jenkins and GitHub Actions**, reducing deployment cycles from **7 days to 3 days** and achieving **90% test coverage** with **JUnit and Mockito.**

TCS, INDIA – SOFTWARE DEVELOPER   DEC 2019 – DEC 2021

- **Delivered** a full-stack **citizen service platform** using **Spring Boot + React**, improving **data retrieval speed by 12%** and enhancing **UI performance** for multi-department usage.
- **Implemented Kafka-based messaging** for inter-service communication, reducing **data sync delays by 15%** and increasing **throughput** across distributed systems.
- **Deployed microservices on AWS EC2** with **Docker and CloudWatch**, cutting **incident recovery time from 40 mins to 28 mins** through proactive alerts.
- **Optimized** REST APIs and **PostgreSQL backends**, increasing **data accuracy and reducing duplicate fetches by 10%**.
- **Automated CI/CD pipelines via Jenkins**, boosting **release frequency from biweekly to weekly** and minimizing rollback incidents.
- **Refactored** legacy monolithic modules into **Dockerized microservices**, reducing **developer onboarding time by 25%** and ensuring better **code maintainability** under **Agile DevOps** practices.

SKILLS

- **Programming Languages:** Java (Expert), JavaScript/TypeScript, Python, C++, SQL
- **Frameworks & Libraries:** Spring Boot, Django, Node.js/Express.js, React, Angular, Vue.js, Bootstrap, JUnit, Mockito
- **Cloud & DevOps:** AWS (S3, Route 53, SES, CloudWatch, ELB, Auto-scaling EC2), Azure, GCP, Docker, Kubernetes, Docker Compose, Jenkins, GitHub Actions, ArgoCD, CI/CD Pipelines, Apache Tomcat, Prometheus, Grafana, CloudFormation (IaC)
- **Databases & Tools:** PostgreSQL, Oracle, MongoDB, ElasticSearch, ServiceNow, GitLab, Bitbucket, Yarn, Gulp
- **Messaging & Event Systems:** Apache Kafka, RabbitMQ, ETag caching
- **AI/ML & Data Analytics:** TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, Predictive Analytics, Fraud/Anomaly Detection, ML Model Deployment
- **Architecture & Design:** Microservices, RESTful APIs, SOAP, Event-Driven Architecture, SOLID Principles, System Design
- **Web & App Servers:** Apache HTTP Server, NGINX
- **Security & Compliance:** OAuth 2.0, JWT, Identity Management, Role-Based Access Control (RBAC), PCI-DSS, GDPR, HIPAA
- **Other Tools & Practices:** Agile Methodologies, Real-Time Data Processing, SQL Query Optimization, Unit/Integration Testing

EDUCATION

NORTHEASTERN UNIVERSITY | USA   **JAN 2022 - MAY 2024**
Master of Science, Computer Software Engineering

DEVI AHILYA VISHWAVIDHYALAYA| INDIA   **JUL 2014 - DEC 2019**
Master of Technology (Integrated), Information Technology

PROJECTS

CLOUDWEAVER - CLOUD-BASED APPLICATION
- Formulated a scalable CloudFormation-based Infrastructure as Code (IaC) template to deploy auto-scaling EC2 instances with Elastic Load Balancing, which led to a 30% boost in system performance.
- Deployed Route 53 for service discovery, configured SES for user-verification emails, integrated CloudWatch for logging, and harnessed S3 for storage, reducing deployment time by 60% with automated Exception alerts.

PINTOS – MODEL OPERATING SYSTEM
- Fabricated REST APIs using Spring Boot, supporting all HTTP methods, and integrating ETag, expanded the queuing mechanism with RabbitMQ, and object data indexing in ElasticSearch.
- Administered JWT Token authentication for secure data transmission, and employed OAuth 2.0 for comprehensive access control and authorization, bolstering system security and user access management.

CERTIFICATION

- Oracle Certified Associate, Java SE 8 Programmer (Code: 1Z0-808)