MANOHAR VALLABI

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SUMMARY

Results-driven **Software Engineer** with over 5 years of experience in **Java** and **MERN stack development**, specializing in the healthcare sector. Spearheaded projects that improved healthcare claims processing speed by 25% and reduced deployment times by 40%. Proficient in building scalable solutions, **microservices**, and secure APIs, with expertise in **PostgreSQL, AWS, and CI/CD pipelines**. Adept at optimizing system performance, ensuring **HIPAA-compliant** data security, and delivering high-quality software solutions aligned with complex healthcare business goals.

SKILLS:

- **Programming Languages**: Java (Java 8), Python, JavaScript (ES6+), C#, TypeScript, HTML/CSS, XML, SQL
- **Frameworks:** Spring Boot, Hibernate, Struts, Angular, React.js, Node.js, Express.js, Django, JSP, Apache Kafka.
- **Tools & Technologies:** Kubernetes, Docker, Jenkins, AWS, Nginx, Git/GitHub, Apache Spark, VS/VSCode
- **Web Services:** REST, SOAP, microservices Architecture, API Design (REST/GraphQL)
- **Security:** JWT Authentication, OAuth2, SSL/TLS, HIPAA Compliance
- **Databases:** PostgreSQL, MySQL, MongoDB, SQL Server
- **Methodologies:** Agile/Scrum, TDD, CI/CD

EXPERIENCE:

Software Development Engineer – LTI Mindtree, USA **Oct 2023 - Current**

- Designed and implemented **Java Spring Boot microservices** on **AWS (EC2, S3, RDS)** to support large-scale **healthcare claims processing**, reducing adjudication time by **25%** and maintaining **99.9%** uptime.
- Developed **REST and GraphQL APIs** integrated with **React.js** dashboards and **MongoDB** databases, enabling real-time visibility of patient records, insurance claims, and provider performance metrics.
- Utilized **Apache Kafka** for event-driven data pipelines, enhancing interoperability between healthcare systems, enabling **EHR integration**, and reducing data delays by **15%** while maintaining **EHR interoperability compliance.**
- Strengthened application security with **OAuth2, JWT authentication**, and **secure coding practices**, ensuring compliance with **HIPAA** and other healthcare regulatory standards.
- Automated deployments using **Jenkins, Docker, Kubernetes**, and **Terraform**, reducing release cycles by 40% and increasing delivery reliability.
- Implemented proactive system monitoring using **Splunk, ELK Stack, and CloudWatch**, decreasing production issue resolution time by **30%**.

Software Engineer – Accenture, India **Oct 2021 - Nov 2022**

- Developed Java Spring Boot and Node.js healthcare membership platform, integrating REST APIs, React.js, and MySQL/MongoDB to deliver personalized plan recommendations and real-time eligibility checks.
- Configured SAML-based Single Sign-On (SSO) and implemented OAuth2 for secure patient and provider portal access, ensuring compliance with HIPAA and PCI DSS.
- Managed deployments on Pivotal Cloud Foundry (PCF) and containerized MERN-based modules with Docker, monitored via Splunk and CloudWatch, improving uptime for critical healthcare services by 30%.
- Automated functional and regression testing using JUnit and Cucumber BDD, reducing manual QA workload by 50 hours per release cycle and ensuring accurate claims processing.

Java Developer – Cognizant Technology Solutions, India **Dec 2019 - Oct 2021**

- Developed healthcare administration applications using Java, Spring Boot, Hibernate, and Node.js, improving claims adjudication speed, scalability, and interoperability across platforms.
- Built API-driven integrations for patient, provider, and claims data using RESTful services, MongoDB, and AWS Lambda, enabling seamless multi-platform EHR/EMR compliance.

EDUCATION:

California State University, California **Jan 2023 - Dec 2024**
Master of Science in Computer Science

KL University, India **Jun 2016 - May 2020**
Bachelor of Engineering in Computer Science

Academic Projects: AskPDF.ai – Document Intelligence Platform

- Developed an AI-powered platform leveraging RAG architecture to enable PDF summarization and interactive Q&A, reducing document analysis time by 40%.
- Delivered a seamless user experience by designing an intuitive front-end using React.js and integrating advanced UX design principles. Deployed a scalable backend on AWS ECS and integrated big data tools like Apache Kafka for real-time data streaming and analysis