Manohar Vallabi

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SUMMARY

Full-stack Software Engineer with 5 years of experience in Java, Spring Boot, and React.js. Skilled at building microservices, APIs, and dashboards with SQL/NoSQL databases, AWS/Kubernetes, and CI/CD automation. Experienced in healthcare and finance platforms with a focus on HIPAA, PCI DSS, and KYC/AML compliance. Recognized for improving system reliability, reducing recurring issues, and collaborating across QA, DevOps, and product teams to deliver secure, business-critical applications.

EXPERIENCE

Software Development Engineer   **LTI Mindtree | USA | Oct 2023 – Present**

• Developed Spring Boot **microservices** on AWS (EC2, S3, RDS) for healthcare claim processing, scaling to millions of records and improving adjudication(legal processing) turnaround.

• Built **React** dashboards with REST/GraphQL APIs, enabling real-time claim monitoring and **cutting manual review workload** by ~30%.

• Optimized **React** performance (using Hooks, memoization) and tuned EC2/RDS usage with DevOps, **reducing page load times** and **lowering infra costs**.

• Scaled **Kafka** pipelines with partitioning and consumer groups to process high-volume claim events daily, **reducing data latency** and enabling **faster reimbursements for providers**.

• **Collaborated** with DevOps to maintain Terraform modules for AWS resources and introduced **unit tests** for APIs/React components, reducing release errors and improving reliability.

Software Engineer   **Accenture | India | Oct 2021 – Nov 2022**

• **Built** membership platform (Spring Boot + React + MongoDB) that automated eligibility checks, processing hundreds of daily transactions and **reducing manual claim reviews**.

• Developed **reusable React component** library with shared UI patterns, improving consistency across portals and cutting duplicate code.

• Implemented **secured login flows** (SAML, SSO, OAuth2), enabling secure 5K+ monthly logins while ensuring HIPAA and PCI DSS compliance.

• Replaced batch claim transfers with **Spring Boot microservices** and **automated Jenkins tests**, enabling near real-time data exchange, reducing claim delays, and improving release reliability.

• **Mentored** 3 junior developers on Spring Boot and React best practices, improving onboarding and overall code quality.

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

• **Built financial workflows** with Java, Spring Boot, and Hibernate, automating loan origination/payment processes and reducing manual intervention for operations teams.

• **Unified** credit and transaction data across millions of records via **REST** APIs and **MongoDB**, improving reporting accuracy and reducing reconciliation errors.

• Integrated **Elasticsearch** for full-text search and optimized MongoDB queries, improving data lookup and reporting responsiveness.

• Developed **JUnit** test coverage for legacy services, reducing recurring production issues and improving release quality.

PROJECTS

Chat with PDF AI | [GitHub](#) | [Live Link](#)

- Built an AI PDF Chat based application using RAG architecture integrating LangChain and OpenAI APIs to enable interactive querying of PDF documents, supporting natural language understanding and context-based answers.
- Deployed with "Streamlit" frontend and "vector database" integration for scalable, real-time responses.

AI Generated Email Reply | [GitHub](#)
- Developed a full-stack application using React and Spring Boot, enabling users to generate AI-powered email replies by integrating the "Gemini API" for seamless communication.
- Designed and implemented a "Chrome extension" to integrate AI-generated email replies directly into Gmail, adding a custom "AI Reply" button for one-click responses.
- Engineered a responsive UI with Material-UI, incorporating dark/light mode toggles, tone selection, and a clipboard copy feature for an enhanced user experience.
- Built secure and scalable RESTful APIs to handle email content processing, ensuring efficient backend communication and seamless interaction with the frontend and Chrome extension.

PHP to Python Migration (Academic Project) | CSULB | [GitHub](#)
- Migrated multiple legacy PHP applications into Python (Flask) as part of modernization, improving maintainability and aligning with modern backend standards.
- Explored best practices in backend design and deployment pipelines, containerizing apps with Docker and sharing results with peers as part of academic knowledge exchange

Diabetes Portal with LLM Chatbot
- Developed a responsive diabetes portal using React and Firebase for enhanced user interaction and secure authentication.
- Integrated Llama 2 AI chatbot (Chainlit) with Python data processing, MongoDB storage, and AWS Redis caching to optimize response times.

SKILLS

- Languages & Frameworks: Java, Spring, Spring Boot, React.js, JavaScript (ES6+), Node.js
- Web & APIs: REST, GraphQL, JSON, HTML5, CSS3
- Databases: PostgreSQL, MySQL, MongoDB
- Testing: Junit, Mockito, Jest, TestNG
- Cloud & DevOps: AWS (EC2, S3, RDS, Lambda), Kubernetes, Docker (containerization), Jenkins, Terraform, CI/CD
- Other: Kafka, OAuth2/JWT, JUnit, Jest, Splunk, CloudWatch, Agile collaboration, Code Review, Compliance

EDUCATION

M.S. Computer Science — CSULB, 2024
B.Tech. Computer Science — KL University, 2020