

Mohammed Ayaz Roomy

Senior Software Engineer

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SUMMARY

Highly skilled Senior Frontend Web Developer & Lead with over 13+ years of experience in software industry. Proficient in UI technologies such as React, TypeScript, ES6, Angular JS, Redux JS & Node, with a strong understanding of REST Webservices. Experienced in building Single Page Applications (SPA) using HTML5, JavaScript, CSS3, Angular or React, and other SPA technologies. Skilled in developing Modern UI Architectures like PWA & Micro Front Ends. Versatile in Agile and Safe-Agile Development Models.

KEY SKILLS

- Modern UI Development • Leadership and Mentoring • HTML, JS & CSS • React & Angular • Micro-front ends
- Progressive Web Apps • Single Page App • Responsive Design • Generative AI
- Lang Chain & Prompting • RAG • Building LLM Applications

TECHNICAL SKILLS

- **Programming Languages:** JavaScript (ES6+), Node JS, TypeScript, Python
- **UI Frameworks & Technologies :** React , Angular , Redux, ES6, SASS / LESS
- **UI Testing Frameworks :** Enzyme , React Testing Library, Jasmine, Jest
- **Test Automation (E2E) :** PlayWright
- **Package Manger / Build Tools :** Webpack , Vite , Yarn , NPM
- **Database:** Mongo DB, Chroma DB
- **AI/ML:** Generative AI (AI-Prompting, LangChain , OpenAI LLM, RAG)
- **AI/ML tools :** Git Hub Co-pilot, MCP Server, Microsoft Co-pilot
- **Version Controls & Project Mgt Tools :** GitLab, GitHub, Jira

PROFESSIONAL EXPERIENCE

Senior Software Engineer

Telstra [Aug '23 - Present]

Bangalore , IN

- Build and Architect Micro-front end's for Monolithic App (TESA)
 - Architected and implemented micro-frontend architecture using **React, Redux,** and **Webpack Module Federation** for '2' teams .
 - Decoupled a monolithic application (TESA) of '2' teams into **independently deployable modules.**
 - **Led the migration of a legacy monolith into two micro frontends** aligned with team ownership, enabling **independent development, testing, and deployment.**
 - Achieved **60% reduction in unit testing and linting runtime** by isolating build scopes per micro-frontend, resulting in faster feedback loops.
 - Improved **developer productivity by over 50%** through simplified local dev setup, clearer code boundaries, and faster build cycles.
 - Helped teams **implement independent release and QA cycles,** significantly improving scalability and reducing delays in multi-team collaboration.
- Migration From Enzyme to React Test Library
 - **Drove the end-to-end migration from Enzyme to React Testing Library (RTL)** for the TESA UI application.
 - Ensured **future-proof test architecture** compatible with **React 18** and modern tooling.
 - **Upgraded React from v16 to v18,** resolving all associated **breaking changes** across the codebase and test suites, while maintaining stability and performance.
 - Designed and implemented a **dual-testing configuration** allowing 50-50 **parallel execution of Enzyme and RTL** during migration.
 - Rolled out a **strategic migration plan** to convert deprecated Enzyme tests to RTL , which helps to achieve 100% migration to RTL at the result.
- Feature Lead Team & Mentoring

- **Led a cross-functional team of 6–7 engineers** to deliver high-impact product features across multiple business domains.
- Acted as a **bridge between engineering, product owners, and business analysts**, owning **end-to-end planning, requirement gathering, and execution** of feature delivery.
- **Collaborated with architects, product managers, and developers** through brainstorming and technical workshops to define scalable solutions.
- Played a key role in **prioritization and backlog grooming**, balancing tech debt, new feature development, and long-term technical vision.

- Build RAG Based Chat-Bot

- **Designed and led the development of a RAG-based chatbot** using **LangChain, ChromaDB, and OpenAI LLMs** to assist TESA users with contextual queries related to the *Enrichment* feature.
- Created the ingestion pipeline to **transform structured and unstructured data** (PDFs, text files, and internal docs) into vector embeddings, enabling **semantic search** via **ChromaDB**.
- Leveraged **OpenAI's APIs** for dynamic question understanding, embedding generation, and response formulation based on retrieved context.
- Built a **modern, intuitive front-end in React** to provide real-time, chat-like interaction with contextual awareness and feedback loop integration.

KEY DEVELOPMENT PROJECTS

- **TESA : Web Application - Micro front ends Adaptation | Tech Stack: React, Redux | Aug'23**
 - **Wrote different configs and plugins to split the monolithic code-base into micro front end.**
 - Developed the Micro-front end Mounting/Unmounting, Styling Strategies , with code-splitting features.
 - Implemented the Routing Strategy with Memory and Brower Router between Root and Child Micro-front ends
 - Implemented the Testing setup and strategies to test the end-to-end setup of MF Architecture.
 - Improved the performance of the Application with feature such as lazy-loading, code-splitting, profiling.
- **TESA : AI Chatbot - RAG Based Chat | Web: React, Redux | Sept '24**
 - **Have done the Analysis and POC for RAG Based Chat bot.**
 - Build the UI with React and other UI tools for RAG based Chatbot.
 - Implemented the RAG Chat Bot with LLM 's and Chroma DB.

EDUCATION

PG Diploma in AI & ML

IIIT Bangalore & upGrad [Sep '24 - Oct '25]

Bengaluru, IN

- **Course modules:**
 - Fundamentals of Python | Python Intermediate Development
 - Statistical Machine Learning | Supervised and Un-supervised Learning | Pandas, NumPy, scit-learn
 - Deep Learning | CNN's | ANN | Tensor flow , Keras
 - Generative AI | Prompting | Open AI LLM | RAG | semantic search | Chroma DB | Lang Chain | Llama Index

Masters in Computer Applications

Bharathidasan University, JMC College [Apr '08 - Apr '11]

Trichy , IN

- **Secured 85%**

CERTIFICATIONS

- **WAI0.1x:Introduction to Web Accessibility** | W3CX | March '24

REWARDS AND RECOGNITION

- **Go Beyond Recognition** - Recognized by senior leadership for successful migration of monolithic app to micro frontends, improving deployment agility and reducing testing time by 60%.
- **Chapter Award for Excellence** - Awarded for leading cross-functional team collaboration and delivering a chatbot using GenAI that improved TESA user query resolution time by 40%.