MANIKANTA RAJU

# Associate Technical Architect | Full-Stack Developer | RAG-Based LLM Platform Engineer

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# SUMMARY

Associate Technical Architect with ~**14 years** in software engineering, specializing in **full-stack** development, **RAG**-based **LLM** platforms, and **IoT** solutions. Recent experience includes leading **UI** and **RESTful** API development for LLM platforms with **Ollama** services, alongside contributing to architectural decisions. Strong foundation in .NET and C# desktop applications, evolving into high-performance web and AI-driven solutions.

Experience in designing and developing scalable web applications using React, Python, Docker with expertise in **cloud**-based architecture, **micro services**, and agile methodologies.

**Experience:** ~14 years  
**Current Position:** Working on RAG-based LLM platform in Toshiba R&D team  
**Key Roles:** UI development, Test automation, RESTful API development

# Experience

Toshiba Software India Pvt Ltd

**Associate Technical Architect (Current Role)**

**Role and Responsibilities:**

* I have been part of TSIP's own RAG-based **LLM** platform from day one, contributing to its growth and success, with the project now generating a revenue of $10,000 per month.
* Key contributor to a first-of-its-kind RAG-based LLM platform at TSIP as an Associate Technical Architect.
* Developed dynamic UI using **React**, **Tailwind CSS**, and **Next.js**.
* Integrated **Ollama** LLM APIs for chat completions and managed the deployment of **Ollama** models.
* **Dockerized** the application to streamline deployment, ensure consistency across multiple different environments.
* Lead UI development, ensuring seamless user experiences through robust design and implementation.
* Created troubleshooting UI to simplify system-level adjustments, enabling easier understanding of system behavior and significantly reducing manual effort and time.
* Created custom dashboards to provide enhanced monitoring and reporting features for ease of management.
* Develop and implement micro services architecture based RESTful APIs, ensuring secure and efficient data handling across services.
* Influence architectural and design decisions, aligning with project goals and technical feasibility.
* Actively participate in architecture discussions, database design, and deployment strategy formulation.
* Analyze the requirements and provide work estimations based on complexity and provide the design changes.
* Create User, Projects, Configure SVN/GIT repositories,
* Design and implement test strategies to ensure product reliability and scalability.
* Collaborate with a small, agile team to drive innovation and deliver cutting-edge solutions.
* Applied TDD approach, pair programming and extreme programming methodologies in development.
* Maintained QMS compliance by ensuring project metrics aligned with organizational standards.

**Principal Engineer, Senior Software Engineer**

* Full-stack developer focused on UI and backend development for web and IoT applications.
* Signiﬁcant contributions to digital twin development and IoT admin dashboards, enabling real-time monitoring, data insights, and robust visualization.

**Career Beginnings**

* Developer specializing in standalone C# desktop applications, delivering tailored enterprise solutions.
* Developed monolithic **RESTful** services via Web API

TECHNICAL SKILLS

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| --- | --- |
| **Technical Skills** | |
| Frontend Development | HTML, CSS, JavaScript, TypeScript, React-JS, Angular |
| Backend and API Development | Python(Fast API),C#.NET, Web API |
| Desktop and Application Frameworks | UWP, WPF, WinForms |
| Version Control and DevOps | Git, SVN, Docker, Kubernetes |
| Database | Mysql, Postgress, Mongo DB |
| Blockchain Development | Web3, Solidity, ERC-20, ERC-721, ERC-1155 |
| Test Frameworks | Jest and Playwright |
| Operating systems | Windows, macOS, Linux |
| Cloud platfoms | AWS, Azure and Google Cloud, Key Cloak |

MORE ABOUT ME

**Agility in Technology and Quality-Driven Work Culture**

* **Adaptable Across Technologies**: Proven track record of transitioning smoothly across diverse technologies, including WinForms, C#, UWP, React, Blockchain, and now LLMs.
* **Experience in Japanese Work Culture**: Over 10 years in a Japanese organization, where quality is central to development, fostering a strong commitment to precision and reliability in my work.
* **Recognized for Excellence**: Received multiple awards for contributions that uphold high standards and drive quality-focused outcomes.

**Problem-Solving Skills through Personal Projects**

* **NFT Marketplace Clone**: Built a personal clone of an NFT marketplace, gaining hands-on experience with blockchain technology and digital assets.
* **Resource Optimization for NGOs**: Developed a platform to help NGOs and social welfare organizations better utilize their resources.
* **Support for the Visually Impaired**: Created a solution connecting visually impaired individuals with volunteers for educational support.

# CAREER TIMELINE

Associate Technical Architect Mar’13-Present | Toshiba Software India, Bangalore

ENO Feb’12-Mar’13 | Credit Suisse, Mumbai

Software Engineer Jan’10-Feb’12 | Efkon India, Mumbai

Associate Professor Jan’08-Jan’10 | SKDE College, Andhra Pradesh

# EDUCATION

# B.Tech. -EEE | 2006 JNT University, Aanantapur

**Declaration**

I hereby declare that the information furnished above is true to the best of my knowledge.