

Narasiman Vasudevan

Hyderabad, TG | madhavcv2116@gmail.com | +91 9498076092 | LinkedIn | GitHub

Professional Summary

Software developer with experience building LLM-powered tools, internal developer libraries, and NLP applications. Skilled in FastAPI, React, Node.js, and Kubernetes, with a strong foundation in computer science. Passionate about building scalable systems and developer-centric solutions.

Experience

Senior Member, Technical, D. E. Shaw & Co. – Hyderabad, TG July 2023 – Present

- Built scalable frameworks for the deployment of business-specific LLM applications, including a system that evaluates LLM responses to find RAG performance through qualitative analysis, and enrolled several groups with it.
- Developed cross-language docstring generation tools for Python, Java, and JavaScript using ASTs and LLM, improving code documentation coverage by 15% overall for better RAG quality.
- Built a Vim/Neovim plugin integrated with the internal LLM Gateway to aid 70+ users.
- Improved internal knowledge access by optimizing a Retrieval-Augmented Generation (RAG) application for internal Python-related queries, achieving a 55% accuracy rate.
- Strengthened UI development workflows by contributing reusable components (3+ business components and a navbar) to an internal UI library, adopting Storybook for component-driven development.
- Led cross-functional upgrades and migrations, including firm-wide transitions to Node.js v20 and GitHub Actions for CI/CD workflows, and delivered 3+ technical talks on RAG, CI/CD migration, and LLM integration best practices.

Intern, D. E. Shaw & Co. – Hyderabad, TG Jan 2023 – July 2023

- Collaborated in developing a web-based WYSIWYG rich text editor prototype using TipTap.
- Built a plugin library for editor customization, including URL short hands, bubble, and link menus.
- Ensured formatting compatibility across other rich text editors like Word and Outlook, backed by robust testing.

Software Engineer Intern, Zoho Corp. – Chennai, TN Jan 2022 – Feb 2022

- Built an NLP-powered resume parser to extract and store structured data for recruitment management apps.
- Improved and optimized the search and filter UI elements of the internal hiring platform.

Education

Coimbatore Institute of Technology, B. E., Computer Science June, 2019 - June, 2023

- GPA: 9.4/10.0 - Best Outgoing student of CSE-2023
- **Coursework:** Data structures and Algorithms (DSA), Operating System Fundamentals (OS), Computer Networks and Database Management Systems(DBMS)
- Led Linux Installation fest migrating all computers to linux.
- Sports Secretary for the year 2023 - organized and managed inter-college sports tournaments.

Skills and Interests

Frameworks: Langchain, Nodejs, Babel, Storybook, Tiptap, FastAPI, React, Typescript, Git, PNPM, Pydantic, Panel, Grafana, Nginx, Jest, Pytest, Cypress, Kubernetes, GithubActions and Jenkins

Interests: PC building, hardware, running, sports, handball, and puzzles

Projects and Hobbies

URL Shortcuts: *Python, FastAPI* - Redirection service that maps URLs to shorthands with CRUD functions

Blackjack simulation: *React, JavaScript* - Simple web app to play and learn the game of blackjack.