

NAGENDRA SRINIVAS MAVURI

Principal Software Architect

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PROFESSIONAL SUMMARY

Visionary Principal Software Architect and Technology Leader with **15+ years** of progressive experience specializing in high-volume **eCommerce** and **telecommunications** platforms. Focused on aligning technology roadmaps with core business objectives and **scaling revenue-generating platforms**. Proven ability to design, architect, and deliver mission-critical, highly available, and **low latency solutions** in aggressive Agile environments. Strategic expert in modernizing complex systems, with a recent emphasis on leveraging **Generative AI Tools** to drive competitive advantage and operational efficiency.

Key Career Highlights:

- Achieved a **40% improvement in core web application performance**, reducing average page load times from **5 seconds to 3 seconds**, directly impacting customer conversion.
- Established and drove the **Generative AI roadmap** for customer engagement, reducing operational friction across the platform.
- Successfully led cross-functional teams to significantly **enhance application stability** and reduce production errors, improving **system reliability for millions of users**.

CORE TECHNICAL EXPERTISE

Category Skills	Skills and Technologies
Architectural Strategy	Microservices, Event- Systems, Performance Tuning Driven Design (DDD) , System Design, REST/gRPC, High-Availability
Generative AI & LLMs	GitHub Copilot, ChatGPT, Google Gemini (Leveraging LLMs for architectural analysis, complex prototyping, and accelerating development velocity)
Primary Languages	JavaScript, Python, Java
Frameworks / Libraries	React, Next.js, Node.js, Spring Reactive Programming, Micro Frontends (MFE)

PROFESSIONAL EXPERIENCE

Principal Engineer

Verizon | Chennai, Tamil Nadu | September 2016 – Present

- **Strategic Migration:** Spearheaded the architectural design and execution of a major platform modernization, migrating a monolith to a highly scalable, multi-repository Single Page Application (SPA), successfully serving over **3 million daily users**.
- **AI Roadmap Leadership:** Established and drove the Generative AI roadmap, translating POC results (using **Gemini** and **ChatGPT**) into actionable strategies for improving conversion funnel velocity and enhancing customer self-service capabilities.
- **Performance Optimization:** Directed a critical performance engineering initiative, which achieved a reduction in page load times from **5 seconds to 3 seconds**, exceeding product goals and improving SEO ranking factors.
- **Modernization Initiative:** Led an engineering unit in the strategic development of a high performance e-commerce application using Next.js and Spring Reactive Programming, resulting in a **significant increase in conversion rates** compared to the legacy system.
- **Organizational Leadership:** Managed and mentored a high-performing team of **10+ engineers**, providing technical guidance, overseeing critical project delivery, and structuring career development plans.

IT Analyst

Tata Consultancy Services (TCS) | Chennai, Tamil Nadu | February 2014 – September 2016

- **Business Development Support:** Provided critical technical and domain expertise to the Business Development unit, successfully securing major client contracts through accurate RFP technical scoping and resource estimation.
- Managed a team of **3 engineers**, overseeing successful project outcomes and professional development.
- **Recognition:** Received the “**Certificate of Excellence**” for outstanding contribution towards mobility projects.

Software Developer

Virtusa | Chennai, Tamil Nadu | Note: July 2010 - February 2014

Mobile Exploration: Explored and applied multiple UX-related libraries and frameworks, with initial exploration into iOS and hybrid application development using PhoneGap, informing future technology choices.

Recognition: Received the “**Best Team Player**” award.

EDUCATION

Bachelor of Engineering Anna University, Chennai, Tamil Nadu | Graduated 2010