

Yeshwanth Krishna

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PROFESSIONAL SUMMARY

Software Engineer with hands-on experience building scalable MERN stack applications and AI-augmented development workflows. Proven ability to improve system reliability (30% reduction in production errors) and leverage AI tooling to accelerate delivery and optimize real-time, high-concurrency systems. Strong ownership mindset with a focus on performance, correctness, and maintainability.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, C++, Python, SQL, HTML/CSS

Frameworks: React.js, Next.js 15, Node.js, Express.js, Redux Toolkit

Tools: Git, Docker, AWS (EC2, S3), Jest, Cypress, Redis

Core CS: Data Structures, Algorithms, OOP, REST APIs, System Design

Leadership: Code Review, Agile/Scrum, Cross-functional Collaboration, Technical Documentation, Mentoring

EXPERIENCE

Software Development Engineer

NSRY, SVP (Naval Ship Repair Yard)

Sep 2025 – Present
Sri Vijaya Puram, India

- Architected and refactored core MERN modules for industrial resource management, improving backend responsiveness and data retrieval speed.
- Reduced production-level system errors by 30% by implementing a comprehensive automated testing suite using Jest and Cypress for mission-critical logic.
- Digitized legacy industrial workflows into scalable full-stack applications, ensuring high data integrity and operational reliability in a high-stakes environment.

Full-Stack Engineering Consultant

Independent / Freelance

Jan 2023 – Present
Remote

- Managed full-cycle SDLC for diverse clients, delivering production-ready platforms using Next.js 15, TypeScript, and AWS.
- Optimized database schemas and API orchestration, improving Lighthouse performance scores by 40% while maintaining backward compatibility for existing users.
- Integrated third-party services including secure payment gateways and LLM-based automation (Gemini 2.0) into existing enterprise systems.

PROJECTS

ScratchPad | *React, TypeScript, Rough.js, Canvas API, Vite*

(Live App | Code)

- Built a fully functional Excalidraw-inspired whiteboard application using React and Canvas API, implementing a custom geometric state model for drawing, resizing, panning, and undo/redo operations.
- Hardened the project with a production-grade DevSecOps pipeline using GitHub Actions, Docker, Lighthouse CI, and Dependabot — achieving zero high-severity vulnerabilities and enforced Core Web Vitals budgets on every deployment.

Veloce Kanban | *React, TypeScript, DnD-Kit, Framer Motion, Tailwind CSS*

(Live App | Code)

- Engineered a high-performance Kanban board with fluid drag-and-drop mechanics across dynamic containers using DnD-Kit, with persistent state management and polished layout animations via Framer Motion.
- Designed with full TypeScript type safety and a minimalist Tailwind CSS aesthetic, inspired by Jira, Trello, and Notion UI patterns.

Pathfinding Analysis Engine | *JavaScript, Canvas API, DSA*

(Live App | Code)

- Architected a PWA to benchmark search heuristics (A*, Dijkstra) on complex grids, optimizing for 60FPS rendering of 2500+ nodes.

EDUCATION

KL University

Bachelor of Computer Applications

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Networking

Vijayawada, India

CGPA: 8.95