Vuchint Sutapalli

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Skills

Frontend: React, Next.js, JavaScript, TypeScript, React Hooks, State Management (Redux/Context API), HTML5, CSS3, Tailwind, Web Performance Optimization

Backend and DevOps: Node.js, REST APIs, Prisma ORM, WebSockets, Docker, Git, CI/CD (GitHub Actions), Playwright

AI and Other: Generative AI (RAG), Pinecone, LLM Applications, Accessibility (a11y)

Education

B.E. Computer Science, BITS Pilani Hyderabad Campus   2014-2018

Projects

Realtime Collaborative Drawing Tool Excalidraw-style (Live Demo | GitHub)   2024
Sole Developer Next.js, TypeScript, WebSockets, Node.js, Neon DB, Nginx

- **Built realtime collaboration:** implemented drawing, comments, and shape editing synced over WebSockets.
- Implemented room-based persistence with Neon PostgreSQL and a dashboard showing previews of all authored canvases.
- Added import/export (PNG, JSON) and full project reload support.
- **Deployed a scalable monorepo system:** set up CI/CD (GitHub Actions) with Nginx routing traffic to 3 coordinated services, reducing deploy time from 10 min to under 2 min.

Turn-Based Real-Time Board Games Platform (Live Demo | GitHub)   2023
Sole Developer React, TypeScript, Node.js, WebSockets, OOP Architecture

- Built a multiplayer platform for turn-based games including chess, tic-tac-toe, and snakes & ladders.
- **Created a pluggable game engine** (GameManager, Game classes, GameLogic modules) allowing rapid addition of new games.
- Integrated an existing chess engine with a custom React UI and synchronized moves over WebSockets.
- **Developed consistent state, turn, and session management** using a Node.js WebSocket server.

Experience

Frontend Engineer — UpGrad, Mumbai and Bangalore   2019-2022
- **2019-2020 Timed Quiz Platform:** Built a React-based quiz system with autosave, timers, and automated evaluation, supporting 50,000+ monthly assessments and improving test reliability.
- **2020-2021 Platform Revamp:** Migrated the legacy Backbone.js learning platform to React, reducing load time by 40%, improving mobile UX, and ensuring WCAG-compliant accessibility.
- **2021-2022 Student Data Platform:** Developed centralized data workflows using React, Formik, and Yup, eliminating spreadsheet-driven processes and reducing operational turnaround time by 60%.

Software Engineering Intern — Samsung R&D Institute, Bangalore   Jan 2018 - Jun 2018
- Developed a C++ based log analyzer with rule-based anomaly detection that reduced manual debugging time by 70%.
- Built a React + Chart.js monitoring dashboard and an SMTP-based alert system for real-time escalation of critical system events.

Certifications

Full-Stack Web Development Cohort 100xDevs (Verification: F73HKQVK)