

Rishik Chowdary Karuturi

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PROFESSIONAL SUMMARY

Innovative AI/ML enthusiast and full-stack developer and active open-source contributor 900+ commits in the last year, and co-creator of a React state management library (Ripplex).

EDUCATION

Bachelor of Technology (Artificial intelligence)	2024 - 2028
Newton School of Technology, Rishihood University	Grade: 8.0/10.0
Intermediate (Class XII)	2022 - 2024
Pragathi Junior College	Grade: 91.3%
Matriculation (Class X)	2021 - 2022
Pragathi Central School	Grade: 84.5%

INTERNSHIPS

Associate Developer	February 2025 - May 2025
AJS Innovations Private Limited	<i>Remote</i>

- **Tech Stack:** React, Node.js, Express.js, PostgreSQL, Prisma ORM.
- **Description:**
 - Built two production-ready platforms — a gifting e-commerce site and a location-based classifieds app handling complete frontend, backend, and deployment.
 - Implemented role-based admin panels, Razorpay payment + wallet systems, location-aware features, and optimized REST APIs for scalable performance.
- **Features:**
 - Role-based admin dashboards for comprehensive product, order, and user management
 - End-to-end payment workflows with order tracking and real-time status updates
- **Key Achievement:**
 - Delivered both platforms end-to-end within 3 months, significantly improving operational efficiency.

PROJECTS

Nativex (Github) (Demo)	July 2025
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- **Tech Stack:** Next, Typescript, Generative AI, Bun, Docker, VS Code Containers
- **Description:**
 - Designed and implemented a full-stack “prompt-to-app” engine that translates natural language prompts into deployable mobile applications, using AI-powered code synthesis, isolated container builds, and scalable multi-user architecture.
 - Implemented Docker containerized development and automated deployment pipelines, enabling scalable, reproducible environments for multiple users and seamless CI/CD workflows.
 - Built modular code generation architecture supporting customizable templates, versioning, and real-time preview to streamline development for diverse app requirements.

Ripplex (Github) (Demo)	June 2025
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- **Tech Stack:** TypeScript, React, Proxies, Signals Architecture, Event-driven design
- **Description:**
 - Co-created a fine-grained, signal-based state management library for React with built-in event system, deep proxy-based reactivity, and minimal-boilerplate setup.
 - Achieved superior performance over Zustand and MobX in benchmarking (2–50× faster in nested and batch updates) and designed modular store-logic-component architecture enabling scalable, testable applications.

- **Highlights:**
 - Designed ripple() reactive primitives, useRipple() selectors, and useRippleEffect() async handler system.
 - Implemented automatic loading/error state tracking and event-driven logic separation to improve maintainability and performance.
 - Currently driving roadmap for SSR support, DevTools, computed state, persistence APIs, Framework Agnostic and plugin ecosystem.

Dev Sketch ([Github](#)) ([Demo](#))

February 2025

- **Tech Stack:** Nextjs, Node, Express, Postgresql, Prisma Orm, WebSockets, WebRTC, Tailwind CSS and TypeScript
- **Description:**
 - Built a real-time collaborative platform integrating a code editor, canvas drawing board, chat, and voice communication, enabling synchronous teamwork and rapid idea sharing.
 - Implemented scalable real-time synchronization and low-latency updates, ensuring smooth multi-user interaction and enhancing productivity across distributed teams

SKILLS

Computer Languages: SQL, JavaScript, CSS, HTML, NoSQL, TypeScript, Python

Software Packages: MongoDB, Express JS, Node.js, Redux, React, Prisma ORM, Tailwind, Figma

Soft Skills: Critical Thinking, Decision-making

Others: AWS

EXTRA-CURRICULAR ACTIVITIES

Badminton

Cricket