

Rithik M

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Experience

APPX YC21

Nov 2024 – April 2025

Software Developer

- Contributed to backend optimizations and enhanced live updates via WebRTC and HTML5 canvas, worked on CI/CD and Kubernetes improving performance and deployment for the product ([webinar.gg](#)).
- Designed and implemented a scalable platform for predicting government exam ranks, efficiently managing up to 50K concurrent users, utilizing Redis Sorted Sets for real-time ranking computations.

Recurpay

Sep 2024 – Oct 2024

Software Development Intern

- Built an automated migration tool to seamlessly transfer customer data from third-party Shopify applications to Recurpay's platform.
- Designed and implemented a robust CSV processing pipeline for efficient data merging, validation, and complete CRUD integration with the application backend.

Projects

Trading platform

[CODE](#)

- Designed and deployed a **scalable, containerized** opinion trading platform using **microservices architecture**, ensuring **high availability and fault tolerance** with **Kubernetes and Docker**.
- Implemented **real-time event-driven communication** using **Redis Pub/Sub and WebSockets**, with automated deployments via **GitHub Actions**.

Tech Stack: Kubernetes, Docker, GitHub Actions, MERN Stack, TypeScript, React.js, Node.js, WebSockets, Redis

Webinar.gg

[LIVE](#)

- Built a live webinar platform enabling **real-time Q&A, polls, and screen sharing** with speaker/audience segregation.
- Engineered **WebRTC and WebSocket-based infrastructure** for ultra-low latency video and interaction delivery.
- Designed a **scalable backend with room-based architecture**, handling dynamic user roles and concurrent sessions.

Tech Stack: Next.js, Node.js, TypeScript, React.js, WebSockets, WebRTC, PostgreSQL, Redis, Docker, Kubernetes

RAG System

[CODE](#)

- Developed a **containerized, AI-powered code search system** that scrapes and vectorizes GitHub repositories for efficient semantic search.
- Integrated **LangChain and Gemini AI** for advanced retrieval and deployed via **Kubernetes**.

Tech Stack: T3 Stack, Docker, Kubernetes, (Next.js, TypeScript, tRPC, Prisma, Tailwind CSS), Postgres, LangChain, Gemini AI

Skills

Languages: JavaScript, TypeScript, Python

Frameworks: Next.js, React.js, Node.js, Express.js

Databases Caching: PostgreSQL, MongoDB, Redis

CI/CD Version Control: Git/GitHub, GitHub Actions

Other: WebRTC, Devops, Kubernetes, Tailwind CSS, API Testing, Load Balancing

Education

SRM Institute of Science and Technology

BCA - Data Science(Online)