

# ROHAN KUMAR

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## EDUCATION

### Indian Institute of Information Technology, Sri City

2021-2025

Bachelor of Technology in Computer Science and Engineering

Relevant Coursework: Operating System, Data-Structures and Algorithms, DBMS, Computer Networks

## TECHNICAL KNOWLEDGE

**Languages:** C, C++, Javascript, Typescript, SQL, Python

**Frameworks/Libraries:** React.js, Node.js, REST API, Express.js, Redux, Tailwind/CSS, Puppeteer, cheerio

**Databases:** MongoDB, PostgreSQL, Redis, MySQL

**Developer Tools:** Git, Github, Postman

**DevOps/CI-CD:** Jenkins, RabbitMQ

## PROFESSIONAL EXPERIENCE

### Vahan AI (Y-Combinator S19)

March 2025–September 2025

*Software Developer Intern*

- Developed a scalable follow-up notification system for a high-volume calling platform, automating **7,000+ daily reminders** and improving user engagement and efficiency.
- Designed and implemented call status handling for AI-driven calls, leveraging **message queues and Fast API** to efficiently store and process candidate responses.
- Engineered workflows for new client onboarding (e.g., Zepto, Porter), **including multi-step forms** with document authentication and state management.
- Assisted in building **candidate uniqueness checks** for quick commerce clients (Blinkit, Zepto, Swiggy, Zomato), ensuring data integrity.
- Optimised 5+ api's** that helped increase performance by more than 50 percent.

## PROJECTS

### Pinetree | ReactJs, NodeJs, MongoDB, ExpressJS, Socket

- The Quiz Application is a web-based platform designed to facilitate both **Individual and Multiplayer** quiz sessions.
- Utilized Socket.io to **synchronize quiz sessions** in real-time, **managing Global and Individual timers** for a seamless multiplayer experience across all participants.
- Developed a multiplayer game supporting **100+ game concurrently**, focusing on reliable and responsive gameplay.
- Implemented secure user authentication using **JWT** and incorporated a real-time leaderboard to track user performance.

### Pinecraft | FastAPI, Node.js, Stable Diffusion, FFmpeg, Supabase, OpenAI

- Created an **AI-powered reel maker** where users enter a topic and instantly receive a concise explanation script generated through OpenAI.
- Built a **local-first FastAPI** service that generates images using Stable Diffusion and assembles  $720 \times 1280$  reels via FFmpeg for slideshow creation and audio-video muxing.
- Developed a **Node.js orchestration layer** that automates reel generation by chaining script creation (OpenAI), TTS voice synthesis, and video generation across coordinated microservices.

### Webmobi | Puppeteer, Cheerio, Javascript

- Built a robust pipeline using Cheerio for **DOM manipulation** and **json2csv** for structured data conversion.
- Engineered robust **error handling** and timeout management to ensure seamless performance across diverse web structures and network conditions.
- Automated navigation** to Google search results for each event title (event.Title), improving event visibility scoring and relevance analysis, leading to a **30 percent** increase in actionable insights for the analytics team.

## ACHIEVEMENTS

- Solved **600+** Data Structures and Algorithms(DSA) problem on various coding platforms.
- Secured **2nd place** among 150+ participants in the Intra-College Coding Competition hosted by Gradient at IIITS.
- Served as Co-Lead of the IOTA Club for 2 years, organizing blockchain development activities and projects.
- Earned a professional certification in **Bitcoin for Developers** issued by Saylor Academy.