

# ATHARVA TIKALE

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## Education

Indian Institute of Information Technology, Gwalior

Jul. 2022 – Jun. 2026

Bachelor of Technology in Computer Science

Madhya Pradesh, India

## Relevant Coursework

- Data Structures
- Database Management
- Computer Networks
- Operating System

## Experience

Bit By Bit Studio

May 2025 – Jul. 2025

Full Stack Developer Intern

- Built a scalable web platform for dantsri.com using **Supabase** backend services, improving user flow and accessibility, increasing session duration by **40%** and reducing bounce rate by **25%**.
- Optimized front-end responsiveness using **React**, reducing page load time by **30%** and improving SEO performance through faster rendering and better Core Web Vitals.
- Improved user experience through UX audits and real-time behaviour analysis, achieving a **20%** efficiency gain.

Stakesmen

Jun. 2024 – Jul. 2024

React, React Native Developer Intern

- Created an interactive educational platform using **React** and **React Native** with real-time learning modules and progress tracking, increasing user engagement by **45%** and supporting **500+** active learners.
- Leveraged **React** and **React Native** to scale application features and build a robust user portal, improving operational efficiency by **30%**.
- Redesigned legacy functions to boost performance and task efficiency by **60%**, utilising **Expo** for mobile development and code-splitting to reduce bundle size by **25%**.

## Programming Skills

**Languages:** TypeScript, JavaScript, C++, C, Go, Python, HTML, CSS

**Frameworks & Libraries:** React, React Native, Next.js, Node.js, Express.js, Nest.js, Redux, Zustand, LangChain

**Databases:** MongoDB, MySQL, PostgreSQL, SQLite, NeonDB

**Tools & Platforms:** Docker, Git, Vercel, Netlify, Firebase, Tailwind CSS, Postman, Expo Go, Clerk, Canva, OpenAI

**Other Technologies:** REST APIs, SQL, Socket.IO, Solana, MetaMask, Hardhat, Remix, Ethereum

## Projects

**ScrapHire - Automated Job Aggregator** | *Next.js, Go, Node.js, MongoDB* | [🔗](#) | [📄](#)   Nov. 2025 – Jan. 2026

- Engineered a distributed job aggregator in **Go** using **3** concurrent goroutines to process **1,500+** daily listings via automated **12-hour CRON** workflows on **GitHub Actions**, reducing manual aggregation by **95%**.
- Implemented a skill extraction engine analysing **100+** technical keywords with **92%** accuracy and **MongoDB**-based deduplication logic preventing **10,000+** duplicate entries per month across multiple job sources.
- Architected a full-stack platform using **Next.js 14** with SSR and **Chromedp** headless automation, supporting **500+** users while achieving **40%** faster load times and sub-**200ms** search responses.

**TkNote – A Terminal-Based Note-Taking Application** | *Go, Bubble Tea, Lipgloss* | [🔗](#)   Dec. 2025 – Dec. 2026

- Designed and delivered a cross-platform **terminal UI (TUI)** note-taking application in **Go**, achieving **sub-50ms** startup time with a minimal memory footprint for distraction-free usage.
- Integrated interactive features including **note creation**, **live editing**, **fuzzy search**, and **list-based navigation** using **Bubble Tea** and **Bubbles**, improving navigation efficiency by **35%**.
- Established **filesystem-based persistent storage** with **safe delete confirmations** to ensure data integrity and prevent accidental data loss.

**NewsIQ - AI Newsletter Generator** | *Next.js, OpenAI, PostgreSQL, Prisma* | [🔗](#) | [📄](#)   Jun. 2025 – Jul. 2026

- Spearheaded an AI-powered newsletter platform using **OpenAI GPT-4** and **Vercel AI SDK** streaming to auto-generate curated content from **RSS feeds**, processing **100+** articles daily.
- Constructed a full-stack solution with **Next.js 16** App Router, **PostgreSQL** via **Prisma ORM**, and **Clerk** authentication, delivering structured AI output with **5** title suggestions and markdown-formatted newsletters.
- Crafted a premium UI using **Tailwind** and **Shadcn**, achieving **95%** content accuracy through context-aware AI.

## Achievements / Positions of Responsibility

- Competitive programming : **Codeforces Specialist (1416)**, **LeetCode Knight**, and **CodeChef 3-star**.
- Contributor to content creation and event scripting as a **Content Team Member** at **E-Cell**.
- Qualified **PRMO 2020** (now **IOQM**), a national-level mathematics olympiad.
- Secured **98.89 percentile** in **JEE Main** with **AIR 10,861** (General category) and qualified **JEE Advanced**.
- Solved **800+** Data Structures and Algorithms problems across multiple competitive programming platforms.