

# DAKSH KUMAR

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## Education

### Indian Institute of Information Technology - Sri City

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.98/10.0

Apr 2023 – Present

Sri City, Andhra Pradesh

### Relevant Coursework

- Data Structures
- Cloud Computing
- Database Management
- Artificial Intelligence
- Operating System
- Computer Networks
- Computer Architecture
- OOP's
- Machine Learning
- Computer Vision
- HPC

## Experience

### SmallGroup

Aug 2025 – Present

Full-Stack Engineering Intern

Remote

- Built a full-stack stock scoring platform for U.S. equities using **Next.js** and **FastAPI**, enabling users to evaluate and compare stocks based on multiple financial and performance metrics.
- Designed and implemented REST APIs to compute and serve stock scores, reducing client-side computation and improving page load times by **30%**.
- Developed a self-deployment and environment management system to deploy and manage **dev** and **prod** environments across multiple services, improving deployment reliability and repeatability.
- Automated build, deployment, and service orchestration workflows, reducing manual deployment effort by **60%** and minimizing configuration drift between environments.
- Collaborated with engineers to standardize deployment practices across projects, contributing to faster iteration cycles and more stable production releases.

### Enigma Club

Oct 2023 – Present

Co-Lead

College

- Led and conducted Capture The Flag (CTF) sessions, helping participants develop skills in reverse engineering, cryptography, web exploitation, and binary exploitation.
- Developed a RAM injection tool for Linux, exploring low-level memory manipulation, process injection techniques, and system security vulnerabilities.
- Explored debugging techniques using GDB, memory forensics, and Linux system calls to enhance troubleshooting and system analysis.

## Projects

**Pingio** | *React, Nodejs, MongoDB, JWT, Cloudinary, Socket.io, DaisyUI*

[Github](#)

- Built a full-stack real-time chat application using React, Node.js, and MongoDB, enabling users to chat and share images through a responsive and modern interface with DaisyUI.
- Integrated Socket.io to power real-time messaging features like instant delivery and typing indicators, achieving sub-100ms message latency for a smooth user experience.
- Implemented JWT-based authentication and Cloudinary integration, ensuring secure user sessions and optimized image sharing, reducing media load times by 40%.

**Rippl** | *Nextjs, PostgreSQL, Authjs, Prisma, Cloudinary*

[Github](#)

- Developed a full-stack social media platform using Next.js, leveraging server-side rendering to achieve a 50% faster initial page load for dynamic content like user feeds and posts, significantly improving user engagement and SEO.
- Architected a scalable backend with Prisma and PostgreSQL, designing a complex relational schema to efficiently model users, posts, comments, likes, and follower relationships, accelerating API response times for feed generation by 35%.
- Implemented a secure authentication system using Auth.js for robust user and session management, thereby mastering the development of feature-rich social platforms by ensuring data integrity and optimizing interactive features within a modern Next.js architecture.

**RAM Injection Project** | *C, ptrace, GDB, Linux*

[Github](#)

- Developed a RAM injection tool on Linux, allowing manipulation of running processes.
- Explored low-level memory manipulation techniques using C and Linux system calls
- Gained expertise in process injection, memory forensics, and debugging.

## Technical Skills

**Languages:** C/C++, Java, GO, JavaScript, TypeScript, Python, HTML/CSS, SQL, BashScript

**Technologies:** Node.js, EJS, Next, React, Redux, Hono.js, Prisma, REST, FastAPI, Turborepo, Pub/Sub

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

**Cloud & DevOps:** AWS, Docker, Cloudflare Worker, NGINX, CI/CD

**Developer Tools:** Git, Vim/Neovim, GDB, Wireshark, Postman, Linux System Calls