DAKSH KUMAR

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Education

Indian Institute of Information Technology - Sri City   **Apr 2023 – Present**
Bachelor of Technology in Computer Science and Engineering   *Sri City, Andhra Pradesh*
CGPA: 8.98/10.0

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Operating System
- Computer Networks
- Computer Architecture
- OOP's

Experience

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.

ArtisanSpace | *EJS, NodeJs, ExpressJs, MongoDB, Sqlite*   **Github**

- Developed a full-stack web platform using Node.js and Express.js, featuring dynamic dashboards rendered via EJS for 40% faster page loads compared to React-based client-side rendering.
- Integrated MongoDB and SQLite for a hybrid data storage solution, using MongoDB's flexibility for artisan profiles and SQLite's relational structure for transactions to ensure 99.9% data consistency under high load.
- Architected a scalable backend with RESTful APIs and a modular MVC design, leveraging async/await and caching strategies to achieve 30% faster API responses and scale to support 10,000+ concurrent users.

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, Java, JavaScript, TypeScript, Python, HTML/CSS, SQL, BashScript
Technologies: Node.js, Express.js, EJS, Next, React, Redux, Hono.js, Prisma, REST APIs, WebSockets, Tailwind CSS
Databases: MongoDB, MySQL, PostgreSQL, SQLite, Redis
Cloud & DevOps: AWS (EC2, S3, Cloudfront), Docker, Cloudflare Worker, NGINX, CI/CD
Developer Tools: Git, Vim/Neovim, GDB, Wireshark, Postman, Linux System Calls