RITUPARNA WARWATKAR

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EDUCATION

Indian Institute of Information Technology, Guwahati   **Dec 2020 – May 2024**
Bachelor of Technology, Computer Science and Engineering   *CGPA: 8.44*

TECHNICAL SKILLS

Languages: JavaScript, Dart, Java, Python, C, C++
Database: MongoDB, Redis, SQL, Firebase
Technologies: NodeJS, Angular, Docker, Flutter, React
Other: AWS, Git, Shell Scripting

EXPERIENCE

FIITJEE, Edfora   **Dec 2023 – present**
Software Developer Intern **|** *Node.js | MongoDB | Redis | Angular | React*
- Implemented APIs related to a Custom Calendar used by FIITJEE.
- Push Notifications, Emails and In-App Notifications.
- Swagger API Documentation for precise and effective communication between development teams.

Veritus.ai   **Aug 2023 – Dec 2023**
Software Developer Intern **|** *Next.js | MongoDB | Redis | Heroku*
- Implemented User Login and Waitlist, User and Session Management, Conversation history, Analytics and Admin panel
- Manage servers, hosting platform and technology tools, building an internal wiki with technical documentation on Notion.

Google DSC - IIIT Guwahati   **Aug 2021 – Aug 2024**
Google DSC Lead
- Conducted two month-long offline backend development bootcamps.
- Providing guidance to interested club members and clearing doubts regarding modern developemnt technologies.
- Conducted several coding sessions on various modern technologies like NodeJS, Flutter, Angular and Linux

PROJECTS

HealthCare Portal | ⚙ | ▶
- Best HealthCare Solution, HackVerse NIT Surathkal
- One-Stop Platform for providing better healthcare in a hassle free manner and eliminating stigmas associated with conventional treatment using Machine Learning
- Tech Stack:- NodeJS, FastAPI, MongoDB, React, Scikit-learn.

multer-firebase-sharp | *npm* ⬏
- Integrated a complete sharp based image processing pipeline in an existing multer based firebase storage engine
- Processes images in-memory and then uploads to Firebase Storage eliminating the need of file system write operations

Eligram-X | ⚙
- A social media application focused on implementing user authentication, authorization and integration with various platforms.
- Implemented 2FA using TOTP along with session management for users to check which devices their account is logged in.
- Admin Panel for managing platform data which insludes users, posts, hate & spam reports etc
- OAuth integration with Discord for users and Telegram for site admins
- Tech Stack: NodeJS, Angular, MongoDB, Redis, Firebase

Multi-tasking Kernel from scratch in C (Ongoing) | ⚙
- A 32-bit multi-tasking kernel with FAT16 filesystem, leveraging Intel's memory protection mechanisms.
- Memory virtualization, virtual filesystem layer, FAT16 filesystem driver, task/process functionality, keyboard drivers, and memory management.
- An ELF file loader along with a fully functioning 32-bit multi-tasking kernel with a working shell.

Emulator 6502 (Ongoing) | ⚙
- The emulator accurately simulates the behavior and instruction set of the 6502 CPU, allowing for the execution of programs written for this specific architecture.
- The project involves implementing the core functionalities of the CPU, including registers, memory management, and instruction decoding.

CERTIFICATIONS

Google Cloud: Cloud Digital Leader ⬏

- Adept at articulating the value of Google Cloud products and their organizational benefits, skilled in aligning cloud solutions with diverse business use cases for enterprise growth.