

# 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

**Other:** AWS, Git, Shell Scripting

## EXPERIENCE

### Edfora, FIITJEE

Dec 2023 – present

Software Developer Intern | Node.js | MongoDB | Redis

- Implemented APIs related to a Custom Calendar used by FIITJEE.
- Sending Push Notifications, Emails and In-App Notifications.

### 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.

### Programming Club - IIIT Guwahati

Aug 2021 – Aug 2022

Head Coordinator

- 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.