

# RITUPARNA WARWATKAR

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in rituparna-warwatkar 🌐 rituparna-ui 📄 rituparna-warwatkar

## EDUCATION

### Indian Institute of Information Technology, Guwahati

Bachelor of Technology, Computer Science and Engineering

Dec 2020 – May 2024

CGPA: 8.21

## TECHNICAL SKILLS

**Languages:** JavaScript/TypeScript, Dart, Java, Python, C

**Database:** MongoDB, Redis, SQL, Firebase, Pinecone

**Technologies:** NodeJS, Angular, Docker, React, Flutter

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

## EXPERIENCE

### Amazon Web Services - EC2

Software Dev Engineer

Feb 2025 – Present

Berlin, Germany

### Veritus.ai

Software Development Engineer

May 2024 – Sept 2024

Kobe, Japan

Node.js | MongoDB | Redis | React | AWS | Next.js | tRPC | OpenAI | Gemini | Pinecone

- Implemented a comprehensive authentication system, including user signup, waitlist management, login, **OAuth social login**, email verification, and password management.
- Developed and integrated a robust **payment processing** and credit control system using **Stripe**.
- Developed a fully-featured full-stack **admin panel** for managing users and platform content, including features such as waitlist management, user transactions, and user feedback.
- Developed a **feature flag** system to enable or disable features without modifying source code or redeploying, allowing for **controlled feature rollouts** and **targeted user testing**.
- Implemented context caching to optimize AI workflows, **reducing LLM costs** by up to **65%** by reusing cached tokens instead of passing the same input repeatedly.
- Implemented a LaTeX renderer for rendering beautiful mathematical expressions and equations generated by the LLMs.

### FIITJEE, Edfora

Software Developer Intern

Dec 2023 – April 2024

Delhi, India

Node.js | MongoDB | Redis | Angular | React | Swagger

- Developed a full-stack **dynamic form builder** and response system, enabling institute admins to create and assign custom forms to students, enhancing platform engagement and **eliminating reliance** on third-party services like Google Forms.
- Implemented **device registration and management** for user authentication on the Glorifire Jr. platform, utilizing **fingerprint.js** for the web and **device IDs** for mobile app. tm
- Developed a full-stack "Question Contribution" module, enabling students to contribute **various question types**, including multiple choice, numerical, and matrix match, to the question bank.
- Enhanced student engagement by up to **50%** through push notifications, emails, and in-app notifications.

## 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.

### 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 includes 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.

## CERTIFICATIONS

Google Cloud: Cloud Digital Leader 📄