

PALLAV KUMAR

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EDUCATION

Indian Institute of Information Technology Guwahati
B.Tech in Computer Science and Engineering

May 2026
CGPA: 8.13/10.0

WORK EXPERIENCE

The Tann Mann Gaadi – Wellness on Wheels
Frontend Developer Intern

April 2025 – Present
Remote

- Developed a responsive and accessible UI for the company's main landing page using React.js and Tailwind CSS, implementing animations to enhance user engagement.
- Integrated the frontend with RESTful APIs via Axios for dynamic content rendering and state management.
- Collaborated within an agile team to build and deploy core application features, using Git for version control.

TECHNICAL SKILLS

- Languages:** Java, JavaScript
- Backend:** Node.js, Express, Nginx, Apache Kafka, REST APIs
- Frontend:** React, HTML, CSS, Tailwind CSS
- Databases:** MongoDB, PostgreSQL, MySQL, Redis
- Tools & Platforms:** Git, Docker, AWS Lambda, VS Code
- Core Concepts:** Data Structures, Algorithms, Object-Oriented Programming, Software Engineering, Database Management Systems, Operating Systems, Computer Networks, Machine Learning

PERSONAL PROJECTS

Cryuze | [GitHub](#) | [Live Demo](#) | Node.js, MongoDB, React, Razorpay

April 2024 – July 2024

- Architected a full-stack hyperlocal service platform from the ground up, designed to connect customers with local professionals by leveraging browser geolocation to notify providers within a 1km radius.
- Implemented real-time chat with WebSockets for direct negotiation and booking.
- Engineered a secure payment workflow using the Razorpay API for in-app transactions.

ProxyServer | [GitHub](#) | Node.js, TypeScript

April 2025 – May 2025

- Architected and built a high-performance, scalable reverse proxy from scratch in Node.js, using a master-worker clustering model to efficiently handle high concurrency across multiple CPU cores.
- Implemented round-robin load balancing, rate limiting, and an in-memory caching mechanism.
- Designed a type-safe YAML configuration system with Zod for runtime-validated routing.

COLLABORATIVE PROJECTS

MoodScape | [GitHub](#) | Node.js, Flask, Kafka, Redis, Nginx, PostgreSQL

January 2025 – April 2025

- Led the full-stack development of a complex, microservices-driven application that performs real-time facial analysis to detect user emotions and deliver personalized music.
- Used Nginx for routing, Kafka for asynchronous messaging, and Redis for caching.
- Engineered backend services using Node.js, Flask, and Golang to optimize system performance.

POSITIONS OF RESPONSIBILITY

Coordinator, Programming Club
IIIT Guwahati

January 2024 – July 2024

Mentored 200+ students through 8 coding workshops and 2 hackathons

Team Head, Entropy Technical Fest
IIIT Guwahati

June 2024 – October 2024

Led a 10-member team to design, develop, and launch the official festival website

ACHIEVEMENTS

- Achieved a global rank of **242nd** out of 15,000+ participants in CodeChef Starters 111 (June 2023).
- Earned **3-Star Coder** rating on CodeChef, demonstrating proficiency in competitive programming.
- Secured **1st Place** in the Debuggers Hackathon, showcasing strong problem-solving and teamwork skills.