

NIRANJAN ALASE

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Education

Indian Institute of Information Technology (IIIT), Kottayam

B.Tech in CSE (Major in Artificial Intelligence and Data Science)

Graduation: 2027

CGPA: 8.76/10

Experience

Markettrack

Software Development Intern

LinkedIn

Sep 2025 — Nov 2025

- Working as a **Full-Stack Developer**, optimizing the existing codebase, reducing API latency by 25% .
- contributing to both **frontend** and **backend** modules by implementing scalable solutions and new features to enhance user experience and system performance.

AlgoUniversity (Y-Combinator-backed EdTech)

Software Engineering Co-op Intern

Live Demo | Source Code

May 2025 — July 2025

- Developed a production-grade **full-stack online judge platform** enabling real-time code execution, automated grading, and progress tracking for learners.
- Integrated the **Gemini API** for intelligent resume reviewing and personalized learning recommendations to improve user engagement.
- Implemented daily **activity heatmaps, contests, and dashboards** to visualize user performance and enhance retention.
- Containerized microservices using **Docker** and deployed seamlessly on **Render** and **Vercel** for scalable cloud hosting.
- Currently building a real-time **contest feature** using **WebSockets** to support live coding interactions; mentored by engineers from **Google, Apple, Bytedance, and Alphagrep**.

Amity University – USRF 2025

Research Intern

Source Code

Noida, India — June 2025 — July 2025

- Built a CNN-LSTM-attention-based **multi-label deep learning model** for physiotherapy exercise recognition using sEMG and motion sensors.
- Achieved **F1-score of 91.7%**, outperforming traditional methods like Binary Relevance (BR), Classifier Chains (CC), and Label Powerset (LP).

Projects

Secure Multi-Tenant REST API with RBAC

Live Demo | Source Code

- Engineered a scalable multi-tenant architecture** using Node.js & MongoDB, enforcing strict data isolation and **Role-Based Access Control (RBAC)** for Admin, Manager, and User roles.
- Implemented robust security protocols, including **JWT authentication, bcrypt hashing, Error handling** and a custom API Key management system (**generation, rotation, revocation**) for external integrations.

ChatNova – AI-Powered Conversational Platform

Live Demo | Source Code

- Developed a dynamic AI chatbot platform using **Gemini API** and the MERN stack, supporting real-time messaging and prompt customization.
- Implemented secure **JWT-based authentication**, Redux for global state, and deployed on **Vercel** and **Render** for fast global access.
- Developed an interactive **dashboard** displaying all user chats, with features including one-click chat **summarization**, total messages, total chats, average messages per chat, and **last active date**.

Technical Skills

Languages: JavaScript, Python, Java, C++

Frameworks & Libraries: React.js ,Next.js, Node.js, Express.js

Frontend: TailwindCSS, HTML, CSS

Cloud & Databases: MongoDB, MySQL, AWS, Docker

Core Computer Science: Operating Systems, Database Management Systems (DBMS), Computer Networks (CN), Object-Oriented Programming (OOP)

Developer Tools: GitHub, VS Code, Postman

Data Structures & Algorithms

- Solved **300+ problems** on platforms like **LeetCode, Coding Ninjas, and Codeforces**, covering key topics such as *recursion, dynamic programming, greedy algorithms, trees, and graphs*.
- Achieved a LeetCode rating of **1640** and participated in regular contests (**top 18% on LeetCode**) to improve problem-solving under time constraints.

Leadership and Achievements

- Represented the state as a **State-Level Kabaddi Player**, demonstrating teamwork and discipline.
- Competed as a **State-Level Athlete** in track and field events, showcasing consistent performance and fitness.