

NIRANJAN ALASE

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Education

Indian Institute Of Information Technology, Kottayam

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

Graduation: 2027

CGPA: 8.76/10

Experience

AlgoUniversity (Y-Combinator-backed EdTech)

[Live Demo](#) | [Source Code](#)

Software Engineering Co-op Intern

- Built a production-grade **full-stack online judge platform** supporting real-time code execution, automated grading, and user progress tracking.
- Integrated **Gemini API** for resume reviewing and personalized recommendations, boosting engagement by 20%.
- Added daily **activity heatmaps**, **tag-based filters**, and **dashboards** to improve problem retention.]
- Containerized microservices using **Docker**, deployed on **Render** and **Vercel**.
- Currently implementing a **contest** feature using **WebSockets** to enable live interactions and dynamic updates.
- Tech Stack: React.js, Node.js/Express.js, MongoDB. Mentored by engineers from **Google**, **Apple**, **Bytedance**, and **Alphagrep**.

Projects

Contract Intelligence Parser – Full-Stack AI Application

[Live Demo](#) | [Source Code](#)

- Developed an end-to-end **AI-powered contract analysis platform** (React 18 + FastAPI + MongoDB) processing 100+ PDF contracts with **90%+ data extraction accuracy**.
- Built a responsive **drag-and-drop interface** with async uploads, real-time status tracking, and error handling using TailwindCSS.
- Implemented **NLP pipeline** (spaCy + regex) to extract financial terms, payment schedules, and entities, cutting manual review time by **80%**.
- Deployed production-ready system with **Docker**, background queues, Swagger docs, and analytics dashboard featuring live updates and visualizations.

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 (NumPy, Pandas, Matplotlib, spaCy), Java, C++

Frameworks & Libraries: React, Node.js, Express.js, FastAPI, TensorFlow, Keras, Scikit-learn

Frontend: TailwindCSS, HTML, CSS, Bootstrap, Vite

Cloud & Databases: MongoDB, MySQL, AWS, Docker, Vercel, Netlify

Developer Tools: GitHub, VS Code, Postman, Jupyter Notebook

Protocols & Technologies: Socket Programming (TCP/UDP), REST APIs, NLP, Background Processing

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 **1528** and participated in regular contests 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.