

CHAGAPURAM SRIVASTAV

Portfolio GitHub LinkedIn LeetCode

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EDUCATION

Indian Institute of Information Technology, Lucknow Lucknow, India
Bachelor of Technology in Information Technology, CGPA: 8.35/10 Aug 2023 – May 2027

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks, Distributed Systems, Software Engineering Principles, Agile Methodologies, Defensive Programming

PROJECTS

- MindfulMate - AI Mental Health Companion [GitHub](#)
 - Tech Stack: React (TypeScript + Tailwind CSS), FastAPI, MongoDB, LangChain, GPT-4o, Weaviate
 - Engineered an AI-powered, context-aware chatbot leveraging **GPT-4o and LangChain RAG**, delivering personalized mental health guidance across 1,000+ user sessions.
 - Developed a **FastAPI backend** with MongoDB and Weaviate vector DB, supporting 500+ concurrent requests with structured **unit testing and debugging**.
 - Implemented journaling and meditation workflows using **React Hooks**, improving user engagement.
 - Optimized system scalability and performance by **reducing response latency by 40%**, applying defensive programming techniques.
- ArticleHub - Scalable Backend Service [GitHub](#)
 - Tech Stack: Node.js, Express.js, MongoDB, JWT, BCrypt, MVC Architecture, RESTful APIs
 - Developed 10+ **RESTful APIs** serving 5,000+ articles and 20,000+ comments, optimizing MongoDB queries for scalability and performance.
 - Implemented **secure authentication and role-based authorization** using JWT and BCrypt with OOP principles.
 - Integrated automated **unit and integration testing**, CI/CD pipelines, and debugging practices to ensure reliability.
 - Enhanced query performance by 30% via indexing, pagination, and caching strategies.
- React Chat App - Real-time Messaging Platform [GitHub](#)
 - Tech Stack: React, Firebase, Tailwind CSS, JavaScript, Cloud Infrastructure
 - Built a scalable real-time messaging app using **React and Firebase** with serverless architecture.
 - Implemented **Google OAuth authentication** and managed UI state with React Hooks.
 - Led feature development using **Agile/Scrum methodology**, collaborating with peers in a team environment.

ACHIEVEMENTS

- Achieved **Global Rank 48** in [CodeChef Starters 204 \(Div 3\)](#) and **Rank 281** in [Starters 196 \(Div 3\)](#).
- Competitive Programming: **4-Star Coder** on CodeChef and **Specialist** on Codeforces.
- Solved **600+ algorithmic problems** across LeetCode, Codeforces, CodeChef, and GeeksforGeeks, demonstrating proficiency in **data structures and algorithms**.
- GSSoC 2024 Contributor**: Contributed to open-source projects by developing **secure authentication (Google OAuth)**, optimizing **responsive React UI components**, and collaborating with maintainers through code reviews and issue resolution.
- Secured admission to **IIIT Lucknow** by ranking in the **top 1.6%** of 1.2M+ candidates in **JEE Mains 2023**.

POSITIONS OF RESPONSIBILITY

- Member, Axios (Web Development Club) – IIIT Lucknow Oct 2024 – Present
 - Collaborated with peers on **full-stack web development projects**, applying React, Node.js, and RESTful APIs to build scalable applications.
 - Facilitated **peer learning sessions** on modern web frameworks, AI integration, and **defensive coding practices**, fostering inclusivity and collaboration within the community.

TECHNICAL SKILLS

Programming Languages:	C++, C#, Python, Java, JavaScript (ES6+)
Software Development:	Object-Oriented Programming, Agile/Scrum, Debugging, Defensive Programming
Web & Application Development:	React.js, Node.js/Express.js, FastAPI, RESTful APIs, HTML5, CSS3, Tailwind CSS
Databases:	MongoDB, MySQL, SQL, Database Design
Cloud & Infrastructure:	Firebase, Serverless Architectures, Cloud Deployment, CI/CD Pipelines
AI & Data:	GPT-4o, LangChain, Vector Databases, Data Structures & Algorithms
Tools & Practices:	Git/GitHub, Unit/Integration Testing, Test Automation, Software Engineering Principles