

Inchara N K

Bengaluru, India | 8123362955 | incharank1@gmail.com
linkedin.com/in/incharank | github.com/IncharaX

SUMMARY

Computer Science undergraduate building full-stack and AI-powered applications with React, Next.js, Node.js and GenAI technologies. Strong foundation in data structures, algorithms and object-oriented programming; seeking a software development internship.

EXPERIENCE

CodePilot

AdAstra, Cambridge Institute of Technology

May 2026 – Present

Bengaluru, Karnataka

- Member of a student developer community focused on collaborative software development, peer learning and practical coding projects.

PROJECTS

AI Knowledge Assistant | *Python, FastAPI, Next.js, TypeScript, ChromaDB, Docker*

- Built a document-grounded RAG assistant with PDF extraction, chunking, embeddings-based semantic search, BM25 keyword search and hybrid retrieval.
- Improved retrieval using Reciprocal Rank Fusion (RRF), Cross-Encoder reranking and confidence checks before generating grounded answers.

PrepMate AI | *Next.js, TypeScript, Prisma, PostgreSQL, ElevenLabs, AWS S3*

- Developed an AI mock-interview platform that generates questions from resumes and job descriptions and conducts voice-based interviews.
- Added response scoring, per-question feedback, job-fit analysis, shareable reports, authentication and AWS S3 resume storage.

GitHub MCP Server | *Node.js, TypeScript, Model Context Protocol, GitHub API*

- Built an MCP server enabling AI assistants to retrieve pull-request details, create issues, post PR comments and check CI status.
- Added a confirm-before-write safety step and tested key repository operations.

FluentAI | *React.js, Node.js, Express.js, OpenAI API, Web Speech API*

- Created a voice-based English coaching app that gives feedback on fluency, grammar, clarity, tone and filler words, with scores and improved answers.

QuickHire | *React.js, React Router, Vite*

- Built a responsive job-search app with role/company search, job-type filters, detailed job listings and client-side navigation.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C

Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS

Backend & Databases: Node.js, Express.js, FastAPI, REST APIs, NextAuth.js, PostgreSQL, MongoDB, Prisma ORM, ChromaDB

AI & GenAI: OpenAI API, Google Gemini API, ElevenLabs API, RAG, Embeddings, Semantic Search, BM25, Hybrid Retrieval, RRF, Cross-Encoder Reranking, Prompt Engineering

Tools & Concepts: Git, GitHub, VS Code, Postman, Vite, Docker, AWS S3, PDF Processing, Document Chunking, MCP, Data Structures & Algorithms, OOP

EDUCATION

Cambridge Institute of Technology

B.E. in Computer Science / CGPA: 9.09/10

2024 – 2028

Bengaluru, Karnataka

CERTIFICATIONS

- Infosys Certification in Python, HTML, CSS and JavaScript