

THARUN CHANDRA LINGALA

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PROFESSIONAL SUMMARY

Final-year Computer Science student and full-stack software engineer with a strong foundation in data structures, algorithms, and software design — demonstrated by 434+ LeetCode problems solved (168 Easy, 195 Medium, 71 Hard) with expertise in Dynamic Programming, Backtracking, DFS, and Hash Tables. Proficient in Java, JavaScript, TypeScript, and Python with hands-on experience designing scalable, AI-integrated web applications and distributed systems. Experienced in real-time event-driven architectures, concurrent system design, REST API development, and containerized deployments. Passionate about large-scale system design, machine learning integration, and delivering production-quality software that solves real-world problems.

TECHNICAL SKILLS

Languages: Java, JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3

Frameworks & Libraries: Next.js 15, React.js, Node.js, Express.js, Tailwind CSS, Redux, Zustand, Prisma, Socket.IO

AI & Machine Learning: Gemini API, OpenAI APIs, scikit-learn, ML model training & evaluation, data preprocessing, feature engineering, prompt engineering

Databases & Auth: PostgreSQL, Firebase, Supabase, Convex, Clerk, NextAuth

Systems & DevOps: Docker, REST APIs, Event-Driven Architecture, Concurrent Systems, Git, GitHub, Vercel, Railway, CI/CD, Linux

Core CS Concepts: Data Structures, Algorithms, Distributed Systems, Scalable System Design, Software Engineering, Debugging, Agile/Scrum

EXPERIENCE

AI & Machine Learning Virtual Intern • EduSkills & AICTE — Supported by Google for Developers *Remote* | Apr 2025 – Jun 2025

- Completed a structured 10-week AI-ML virtual program sponsored by Google for Developers, applying machine learning to real-world engineering problems.
- Implemented supervised and unsupervised learning algorithms — including classification, regression, and clustering — using Python and scikit-learn on real-world datasets.
- Resolved data quality challenges (class imbalance, missing values, noisy records) through augmentation pipelines, cleaning strategies, and multi-source integration techniques.
- Gained practical exposure to Google's AI developer ecosystem, reinforcing foundations in scalable AI application development and responsible ML engineering practices.

PROJECTS

WeConnect — Real-Time Distributed Messaging Platform • Next.js, TypeScript, Convex, Socket.IO, Clerk, Zustand, Node.js 2025

- Architected a production-grade distributed messaging system with instant chat, typing indicators, online/offline presence detection, and read receipts across concurrent user sessions.
- Designed an event-driven backend using Convex subscriptions and Socket.IO, achieving sub-1-second end-to-end message delivery latency under concurrent load.
- Engineered scalable client-side state synchronization with Zustand, maintaining consistent UI state across multiple devices and sessions with zero data inconsistency.

aiMagix — AI-Powered Image Generation Platform • Next.js 15, Gemini API, Supabase, Prisma, NextAuth, Node.js 2025

- Built a full-stack AI image generation platform integrating Gemini API for intelligent prompt enhancement and external AI APIs for HD image synthesis and one-click download.
- Architected authenticated user workflows with Supabase + Prisma ORM for persistent generation history, secure sessions, and scalable data access patterns.
- Optimized the end-to-end API request pipeline, reducing prompt-to-image latency and delivering a responsive, production-quality experience across all device sizes.

webGenie — AI-Powered Website Generator • Next.js, React, TypeScript, Gemini API, OpenAI APIs, Node.js 2025

- Built an LLM-driven platform that generates complete website layouts and content from natural language prompts, fully automating the UI prototyping and content generation workflow.

- Engineered a modular, reusable AI generation architecture on Gemini and OpenAI APIs, enabling rapid landing-page creation and significantly reducing manual development setup time.
- Implemented type-safe, component-driven frontend in Next.js + TypeScript ensuring maintainability, scalability, and clean separation of concerns across the full codebase.

InstaLoad & TubeFetcher — Containerized Media Platforms • *Next.js, Node.js, Express, Docker, Railway, Supabase, Clerk* 2025

- Built two full-stack media platforms (Instagram reels + YouTube videos) with Dockerized Node.js/Express backends, deployed on Railway for scalable, portable production infrastructure.
- Engineered a secure API proxy layer shielding all backend endpoints; integrated multi-format and multi-resolution media processing pipelines for reliable, high-speed downloads.
- Implemented user authentication (Clerk) and persistent download history (Supabase), delivering a fully authenticated product experience with consistent performance under load.

Advanced Browser-Based Code Editor • *Next.js, React, TypeScript, CodeMirror 6, Web Speech API* *In Development*

- Engineering a browser-native IDE using CodeMirror 6 with syntax highlighting, active line tracking, multi-theme support, and productivity-focused keyboard shortcut customization.
- Integrating Web Speech API for voice-driven, hands-free code input to enhance accessibility; architected with a modular plugin system for scalable, independent feature development.

LEADERSHIP

Team Lead — Cardio AI (Heart Disease Prediction) • QIS College of Engineering and Technology *Andhra Pradesh* | *Jan 2024 – Present*

- Led a team of 3+ developers building production-grade ML models for heart disease risk prediction; managed task allocation, code reviews, and technical decisions across the project lifecycle.
- Resolved critical data pipeline challenges — class imbalance, missing values, noisy records — through advanced augmentation and multi-source integration, improving model accuracy and generalization.
- Integrated trained AI models with a PostgreSQL backend to manage patient records efficiently, bridging machine learning outputs with a scalable, query-optimized database layer.

EDUCATION

Bachelor of Technology — Computer Science & Engineering *Expected May 2025*

QIS College of Engineering and Technology, Andhra Pradesh | CGPA: 7.57 / 10.0

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming, Software Engineering

COMPETITIVE PROGRAMMING

LeetCode • [Tharunchandralingala](#) *Contest Rating: 1,495 | Top 45.96% Globally*

- Solved 434+ problems in Java — 168 Easy, 195 Medium, 71 Hard — across 920+ submissions with 73.59% acceptance rate.
- Advanced skills: Dynamic Programming (47 problems), Backtracking (26), Divide & Conquer (15) — core algorithmic areas tested in Google interviews.
- Intermediate skills: Hash Tables (79), Math (79), Depth-First Search (68) — strong coverage of fundamental CS problem-solving patterns.
- Beats 96.18% of users in runtime and 93.55% in memory efficiency — demonstrating consistent focus on optimal, production-grade solutions.

CERTIFICATIONS

Next.js App Router Fundamentals — Vercel *May 2025*

JavaScript Algorithms & Data Structures — freeCodeCamp *Aug 2024*

Python (Basic) — HackerRank *Aug 2024*

Responsive Web Design — freeCodeCamp *May 2024*