

# Karthik Nakkala

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## Education

### IIT Madras

Bachelor of Science in Data Science and Applications

Chennai, India

Aug. 2024 – Sep. 2028

### PW Institute of Innovation

Industry Ready Program

Bangalore, India

Aug. 2024 – Sep. 2026

### IIIT Idupulapaya

PUC (Pre-University Course)

Kadapa, India

Jan. 2021 – Sep. 2022

## Experience

### PW IOI Institute

second-Year Student – Programming & Development

Bengaluru, India

Aug. 2024 – Present

- Completed coursework in C, java, HTML, CSS, JavaScript, React, Node.js, express.js with a focus on full-stack development.
- Developed an interactive blogging application with user authentication, role-based authorization, and MongoDB database integration
- Maintained organized GitHub repositories with clear documentation and version control for all coursework.

### Amazon India Hackathon

Top 5 Finalist – AWS Hackathon (Team of 5)

Virtual

June 2025

- Developed an AI-powered cloud solution using AWS PartyRock, focusing on interactive logic and engagement.
- Ranked in the Top 5 out of 115+ teams nationwide during Round 1.
- Utilized prompt engineering and LLM-powered components to rapidly prototype applications within 24 hours.

### Inter-College Hackathon

Hackathon Web Design (B2C)

Bengaluru, India

April 2025

- Developed a B2C interactive web platform in under 24 hours using HTML, CSS, and JavaScript.
- Deployed a responsive UX to GitHub Pages, demonstrating quick problem-solving under pressure.

## Projects

### Chatting Application | WebSockets, JavaScript, express.js

December 2025

- Developed a real-time group chat application using WebSockets, enabling instant communication among online users.
- Implemented features to display active users and support group messaging with responsive UI.
- Planned future enhancements including secure authentication, role-based authorization, and user data protection

### UI/UX Website Clones | HTML, CSS, JavaScript

Feb. 2025 – April 2025

- Recreated pixel-perfect frontend clones of real-world platforms including IIT Madras, SBI, and YouTube.
- Focused on high-fidelity layout replication and interactive UI components.

### Static Website – End Semester Challenge | HTML, CSS, JavaScript

May 2025

- Engineered and deployed a static website within a strict 3-hour time constraint for a semester project.

### Data Structures and Algorithms | c++, java

Feb. 2025 – present

- Solved 100+ problems on HackerRank, 100+ problems on LeetCode, and 100+ problems on GeeksforGeeks, demonstrating consistent problem-solving ability.
- Completed comprehensive coverage of core algorithms and data structures, including trees, dynamic programming (DP), greedy algorithms, backtracking, and graph theory.
- Strengthened analytical thinking and optimized solutions with a focus on time and space complexity.

## Technical Skills

**Languages:** C, C++, java, JavaScript, SQL, HTML/CSS, Node.js

**Frameworks:** React, Express.js

**Tools:** VS Code, Git, GitHub, AWS PartyRock