

Karthik Nakkala

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Education

IIT Madras <i>Bachelor of Science in Data Science and Applications</i>	Chennai, India Aug. 2024 – Sep. 2028
PW Institute of Innovation <i>Industry Ready Program</i>	Bangalore, India Aug. 2024 – Sep. 2026
IIIT Idupulapaya <i>PUC (Pre-University Course)</i>	Kadapa, India Jan. 2021 – Sep. 2022

Experience

PW IOI Institute <i>second-Year Student – Programming & Development</i>	Bengaluru, India Aug. 2024 – Present
<ul style="list-style-type: none">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 integrationMaintained organized GitHub repositories with clear documentation and version control for all coursework.	
Amazon India Hackathon <i>Top 5 Finalist – AWS Hackathon (Team of 5)</i>	Virtual June 2025
<ul style="list-style-type: none">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 <i>Hackathon Web Design (B2C)</i>	Bengaluru, India April 2025
<ul style="list-style-type: none">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 <i>WebSockets, JavaScript, express.js</i>	December 2025
<ul style="list-style-type: none">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 <i>HTML, CSS, JavaScript</i>	Feb. 2025 – April 2025
<ul style="list-style-type: none">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 <i>HTML, CSS, JavaScript</i>	May 2025
<ul style="list-style-type: none">Engineered and deployed a static website within a strict 3-hour time constraint for a semester project.	
Data Structures and Algorithms <i>c++, java</i>	Feb. 2025 – present
<ul style="list-style-type: none">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