

# Kartik Subbaram

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No. 18 'A', First Cross, R.M.V Extension, Bengaluru - 560080.

## EDUCATION

<b>Manipal Institute of Technology</b> <i>Bachelor of Technology in Computer Science Engineering (CGPA : 9.49/10)</i>	Manipal, Karnataka Aug. 2022 – Present
<b>Vyasa International School</b> <i>Central Board of Secondary Education 12th (91%)</i>	Bengaluru, Karnataka Jul. 2020 – Jul. 2022
<b>Vidya Niketan School</b> <i>Indian Certificate of Secondary Education 10th (99%)</i>	Bengaluru, Karnataka Jun. 2010 – Jun. 2020

## TECHNICAL SKILLS & INTERESTS

**Relevant Coursework:** Data Structures, Design and Analysis of Algorithms, Object Oriented Programming, Database Systems, Digital Systems Design, Embedded Systems  
**Languages:** Java, Python, C/C++, SQL (SQL Plus, MySQL), JavaScript, Typescript, HTML/CSS,  
**Frameworks:** React, Node.js, Express.js, NextJS, Material-UI, Bootstrap, FastAPI, Electron  
**Developer Tools:** Git, GitHub, Visual Studio Code, BlueJ, Scene Builder, ChatGPT, Microsoft Copilot, MongoDB Compass, Robot Operating System  
**Other Interests:** Frontend Development, Cryptography, CTF Competitions, Emerging Technologies and Gadgets.

## WORK EXPERIENCE

<b>Iween Software Solutions</b> <i>Intern</i>	May 2024 – June 2024 Bangalore, Karnatka
<ul style="list-style-type: none"><li>• <b>Engineered Plane Ticketing Application:</b> Architected a highly responsive, high performance and intuitive user interface using ReactJS. Constructed all features of a robust application that handled all processes from flight selection to booking.</li><li>• <b>Implemented Advanced State Management:</b> Designed and implemented sophisticated state management strategies to handle dynamic data updates, ensuring real-time synchronization of seat selection, meal choices, and baggage options across multiple components.</li><li>• <b>Seamless API Integration and Data Handling:</b> Spearheaded the integration of multiple APIs using Axios to enable real-time updates and interaction, including fetching flight data for filtering, managing user log in systems, and handling search requests.</li><li>• <b>Collaborative Agile Development:</b> Worked within an agile development framework participating in regular code reviews, ensuring continuous integration of suggestions so as to ensure the application performs optimally across various devices and screen sizes, delivering a seamless user experience.</li></ul>	

## COMPETITION PROJECTS

<b>Cropify</b>   <i>Python, Tensorflow, React, MongoDB, Express, Node</i>	January 2024
<ul style="list-style-type: none"><li>* Headed the frontend development of a fullstack application for the CodeCraft hackathon conducted by TAPMI Manipal, earning the <b>runner-up prize</b> by implementing algorithms to monitor and identify plant diseases, soil types, and forest fires using Image Classification.</li><li>* Led front-end development and <b>UI/UX design</b>, utilizing tools like TailwindCSS and ShadCN UI to quickly develop highly responsive interfaces.</li></ul>	
<b>Xplorer</b>   <i>Fast API, Python, React, MongoDB, Typescript, NextJS</i>	October 2023
<ul style="list-style-type: none"><li>* Took part in the development of a fullstack application for the M# hackathon conducted by MIT Manipal, earning the <b>consolation prize</b>, and deployed a restaurant recommendation system using <b>collaborative filtering</b> and <b>cosine similarity</b> techniques.</li><li>* Spearheaded the frontend development of NextJS components and prepared comprehensive business plans and presentations outlining the project's future vision and strategies.</li></ul>	

## EXTRA CURRICULARS

<b>Rotaract Club Manipal</b> <i>Director of Professional Development</i>		
<ul style="list-style-type: none"><li>* Organized and conducted workshops, seminars, and professional development sessions</li><li>* Managed administrative functions of club activities</li><li>* Participated in social outreach events</li></ul>		
<b>IECSE (Official Computer Science Club)</b> <i>Management Committee Member</i>		
<ul style="list-style-type: none"><li>* Assisted in planning and executing technical events, workshops, and competitions</li><li>* Participated in recruitment drives and conducted interviews of new working committee members</li></ul>		