

KARTIK KHANNA | 20ME10109

MECHANICAL ENGG.(B.Tech 4Y)



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	B.TECH	IIT Kharagpur	8.83 / 10
2020	AISSCE (CBSE)	Dayawati Modi Academy, Rampur	96.4%
2018	AISCE (CBSE)	Shirdi Sai Public School, Moardabad	96.8%

INTERNSHIPS

DSTRCT Media BV | Netherlands | Role: Software Engineer Lead Intern

Mar '23 - Present

- Developed a React native app, using technologies like react-native-gifted-chat, dialogflow for chatbots, alongside cloud databases and real-time updates
- Led a team of interns, supervising code quality and fostering a cooperative environment and made decisions on database schema and project architecture
- Proposed and integrated HL7 FHIR APIs with high-level security features for access to EHR's like EPIC/CERNER, ensuring data integrity and authenticity
 Leveraged technologies such as Node.js, Redux, Firebase and MySQL for backend, delivering cross-platform applications with advanced state management
- Developed apps, featuring attendance tracker, event-calendars etc utilizing MySQL/NoSQL, Calendly API and advanced features for employee management

Fettle | Role: Full Stack Developer Intern

lay '23 - Jun '

- Elevated app performance with tech integrations like Native Track-Player, **Redis** server and enabled precise user activity tracking through analytics APIs
- Implemented a notification token system for users and resolved bugs and integrated various packages/tools like Google Fit, Image-Picker and Mixpanel
- Optimized the admin panel website by addressing timeout issues through data fetching techniques and resolved backend APIs for enhanced efficiency

Zeed | Role: Backend Developer Intern

eb '23 - Apr '

- Pioneered a comprehensive admin panel with critical data metrics like user value and integrated third-party API like Metals API for real-time updates
- Engineered an efficient database backend schema using NoSQL database, guaranteeing effective storage and retrieval of data for seamless operations
- Architected resilient and scalable APIs utilizing Node.js, Firebase, and Express.js, fostering seamless interaction between the frontend and backend parts

Random Publications LLP | Role: Software Engineer Intern

Mav '22 - Jul '2

- Employing ReactJS, TurnJS and ViteJS, a cutting-edge e-commerce platform was meticulously crafted, enhanced with Tailwind for a visually captivating UI
- Built a custom backend API using MERN Stack, enabling user authentication, and implementing real-time order tracking system for a smooth experience
- Implemented performance optimizations, including code splitting, lazy loading, and caching, ensuring rapid loading times and enhancing the overall UI

Cling Multi-Solutions | Role: Software Developer Intern

ec '21 - Feb '22

- Optimised the website performance and increased its efficiency by 18 percent by adopting search engine optimization and improving the interface
- Executed a dynamic interactive gallery from scratch based upon PHP, MySQL, HTML, Bootstrap for a online-gaming website with daily 1000+ user traffic
- Created mobile responsive full stack project with PHP, RESTful API server to handle CRUD operations in MySQL based database schema of user portfolio

PROJECTS

Levitree | San-Fransisco - US | Freelance Contract Project

- Developed an admin controller website with ReactJS, ViteJS, and Bootstrap for real-time device control, using toggles, sliders, and textboxes for feedback
- Integrated AWS Lambda and AWS S3 for fetching device data and created Python APIs for IoT device data display, ensuring a dynamic user experience
- Utilized advanced graphing for dynamic device parameter visualization and showcased full-stack development, cloud integration, and data visualization

Memories App | Self Project

- Developed a interactive social media **MERN application** called "Memories" that allows users to post/view interesting events that happened in the lives
- Executed a full-stack MERN project using ReactJS, Threejs, NodeJS, ExpressJS & MongoDB to handle all CRUD operations and improvise user experience
- Learnt and used axios for making API requests, libraries such as redux/redux thunk for states and frameworks like moment.js for date/time objects

Voice-Controlled Car | Course Project

- Engineered a voice-controlled car, using Arduino, HC-05 module with a React-Native app and enabled real-time control via Proteus-scripted commands
- Developed a mobile app for vehicle control, utilizing react-native-ble-manager for Bluetooth communication and react-native-voice for voice commands

SKILLS AND EXPERTISE

- Languages and Databases: C++, Python, PHP, Javascript, MongoDB, MySQL, NodeJS, ExpressJs, AWS, Firebase, Cloud Firestore, Rest-API, Numpy, Pandas
- Frameworks and Softwares: ReactJS, React Native, NextJs, ViteJs, Mixpanel, Tailwind, Dialogflow CX, Postman, HL7, FHIR, Github, Lighthouse, Bitbucket

COMPETITION/CONFERENCE

- Attained the 7th rank among over 5000 Class-X students in Moradabad district during the Mega Minds Scholars Den competition in 2017-2018 batch
- Ranked in the top 5% of students, I was selected for Amazon's ML Summer School 2023, advancing expertise in various ML and data science concepts
- Demonstrated excellence in competitive programming by attaining 11th global rank out of 14,293 participants in the Codechef Starters 68 contest

AWARDS AND ACHIEVEMENTS

• Achieved recognition in top 5% out of 1,800 students, earning the opportunity for a department change based on academics during the freshman year

CERTIFICATIONS

ALGORITHM AND DATA STRUCTURE | Algozenith

• Learnt and built understanding of several topics like Standard Template Library (STL), space and time complexity, combinatorial mathematics, binary-search, bit manupulation, backtracking, sorting and some advaced topics like dynamic programing, object-oriented programing, graphs, binary tree, trie

COURSEWORK INFORMATION

Programming & Data Structures | Programming & Data Structures Laboratory | Linear Algebra | Operation Research-1 | Basic Electronics | Basic Electronics Laboratory | Mechatronics Lab | Introduction to Financial Management | Introduction to Innovation And Entrepreneurship | DIY | Probability & Stats

POSITIONS OF RESPONSIBILITY

Tech Team Subhead | Spring Fest, IIT Kharagpur

Aug '21 - Mar '22

- Collaboratively developed two complete MERN stack websites within the web-team, resulting in the registration of over 3500 students for diverse events
- Coordinated the creation of an engaging web-based puzzle game, Labyrinth within a 10-member team, leading to participation from over 2000 students
 Effectively oversaw a variety of events, including arts, music, dance, during Spring Fest, significantly increasing student registrations across India by 10%
- !Self declared by the student, CDC could not verify the relevant documents