

Nikhil Kumar

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Education

Indian Institute of Technology Palakkad
Bachelor of Technology in Electrical Engineering
Cumulative GPA: 7.99

11/2020 – 06/2024
Palakkad, India

Professional Experience

Tiger Analytics

Trainee

12/2024 – Present
Chennai, India

- Revitalized UI/UX for MLE core web application internal tools using **ReactJS** and **Tailwind CSS**, increasing user satisfaction by 70%.
- Automated workflows by integrating refresh mechanisms and refining filter functionalities, boosting operational efficiency by 30%.
- Engineered frontend features with **TypeScript** and **JavaScript**, implementing reliability checks using **Python**, reducing user-reported issues by 40%.
- Audited UI design documentation and navigation, enhancing user engagement by 20%. Developed expertise in **Python** for backend optimizations.

Satcard

Software Developer Intern

05/2023 – 07/2023
Remote

- Enhanced UI and optimized backend processes using **Django** and **Python**, improving performance by over 60%.
- Designed a **WhatsApp notification system** and an administrative dashboard with **Django**, increasing operational efficiency by 90%.
- Created a “Reports Page” with **Django**, automating critical business metric summaries and reducing decision-making time by 40%.

Business Web Solutions

Full Stack Web Developer Intern

01/2023 – 03/2023
Remote

- Crafted responsive webpages using **HTML**, **CSS**, and **JavaScript**, integrated APIs with **Node.js**, and resolved bugs, enhancing website functionality by 35%.
- Contributed to the shopping cart layout design with **ReactJS**, increasing user retention by 25%.
- Enhanced webpage responsiveness using **Tailwind CSS**, improving user experience and increasing mobile traffic by 20%.

Projects

Farmer Dashboard [Video demo]

Technologies: HTML, CSS, JavaScript, Python, Django, MySQL

09/2023 – 04/2024

- Created a dashboard providing farmers with real-time crop and field data, increasing data accessibility by 50%.
- Implemented crop stage algorithms and integrated weather forecasts via API, reducing planning time by 30%.
- Designed 6 functional cards, including **Google Maps** integration and parameter graphs, enhancing data visualization.
- Optimized backend with **MySQL**, reducing server load by 40% and improving response times by 25%.
- Collaborated with stakeholders to iterate and improve the dashboard, which was in early deployment with scaling plans.

Portfolio [Live Link] [GitHub Link]

Technologies: React, Next.js, TypeScript, Tailwind CSS, Framer Motion, React Email

04/2024 – 05/2024

- Launched a portfolio website with load time under 1.5 seconds and a **Lighthouse** score above 90, enhancing personal branding.
- Integrated 6 sections: Intro, About, Projects, Experience, Contact, and Skills, showcasing frontend and backend abilities.
- Implemented a dynamic navigation bar responsive to scroll position with **ReactJS**, improving navigation efficiency by 25%.
- Added dark and light modes using **Tailwind CSS**, enhancing user experience and accessibility, increasing engagement by 15%.

Grammar Checker by OpenAI API [GitHub Link]

Technologies: Python, PyQt6, OpenAI API

07/2023 – 08/2023

- Built a grammar-checking app with a tab-based interface using **PyQt6**, saving users an average of 15 minutes per session.
- Enabled concurrent grammar-checking sessions with **Python**, reducing processing time by 35%.
- Created an intuitive platform for users to improve grammar and syntax, increasing content accuracy by 40%.

Skills

Programming Languages: C++, Python, JavaScript, TypeScript

Web Development: ReactJS, Django, Node.js, Next.js, Express, Tailwind CSS, SQL, MongoDB, GraphQL, Prisma, Framer Motion, PyQt6, Git, GitHub

Core Concepts: Operating Systems (OS), Database Management Systems (DBMS), LLD, HLD, DevOps

Competitive Programming: Data Structures and Algorithms (DSA), Specialist at Codeforces (Rating-1510)
