

# JIBIN KRISHNA K T

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## SUMMARY

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I'm an Electrical Engineer with a strong passion for technology and innovation. Along with my core engineering background, I've developed solid skills in programming and web development, including Python, JavaScript, SQL, HTML, CSS, and React. I enjoy building practical solutions that blend hardware knowledge with software creativity whether it's automating tasks, developing interactive web applications, or exploring how coding can enhance engineering projects. I'm constantly learning and experimenting with new tools to stay ahead in both the electrical and software domains. My goal is to contribute to projects that combine technical precision, logical thinking, and user-focused design to create meaningful impact.

## TECHNICAL SKILLS

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- **Programming:** Python, SQL, JavaScript, HTML, CSS
- **Tools:** VSCode, Anaconda, MySQL, KiCAD, Matlab, LTSpice, Blender
- **Libraries and Frameworks:** NumPy, Pandas, PrettyTable, Turtle, Tkinter, smtplib, Requests, BeautifulSoup, Selenium, React, Flask, Node, Bootstrap

## PROJECTS

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- **Full-Stack E-commerce Platform:** Engineered a feature-rich E-commerce application, significantly focused on transforming the codebase to use modern React with TypeScript for enhanced maintainability and type safety. The project began with a Vite setup and included converting the application structure to utilize TypeScript, reducing potential runtime errors. Key features involved implementing comprehensive client-side routing, developing complex UI components such as a navigation bar and product listings, and integrating state management for shopping cart and user authentication logic. This project showcased advanced development practices, focusing on building scalable, production-ready applications with strong emphasis on component reusability and modern developer tooling.
- **Python Games:** Quiz game, Turtle race, Turtle crossing, Snake game, Pong game, States-name game, NATO Alphabet game, Pomodoro countdown, Password manager, Flash card, quiz brain
- **Walmart Sales Data Analysis:** Conducted comprehensive sales data analysis on Walmart's multi-branch transactional dataset to identify high-performing product lines and customer behavior patterns. Performed end-to-end analysis including data cleaning, exploratory data analysis, and feature engineering by creating time-based variables and categorical classifications. Utilized SQL for database management and complex querying to extract insights on branch performance, customer segmentation, and revenue generation across product categories. Analysed seasonal sales trends, identified top-performing branches, and developed interactive visualizations and dashboards presenting key metrics including gross margin percentage and profitability analysis, delivering actionable recommendations for optimizing sales strategies and inventory management.
- **PCB Design and Implementation:** Designed and developed a complete two-board PCB system comprising power and control circuits using KiCad PCB design software. The project involved end-to-end PCB development including schematic capture, component placement, routing optimization, and design rule verification. Successfully manufactured the boards through PCB POWER fabrication services and validated functionality through comprehensive testing. The power circuit board handles voltage regulation and power distribution, while the control circuit manages system logic and sensor interfacing. Both boards demonstrated successful operation, confirming the design integrity and meeting all project specifications, marking a significant milestone in practical hardware implementation skills.

## EDUCATION

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- BTech in Electrical and Electronics Engineering  
CGPA: 7.6
- Government Engineering College Thrissur  
2021-2025

## COURSEWORK AND AWARDS

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- 100 Days of Code: The Complete Python Pro Bootcamp on Udemy
- Full stack Web Development Workshop