



PRATHEEK RAO K B

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Innovative Full-Stack Developer with a proven ability to solve **complex challenges** in **Hackathon Environments**. Proficient in **React, Django, and SQL**, with a focus on delivering **Scalable, High-Impact solutions**. **Quick Learner** with **Strong Problem-Solving Skills**, excelling in **Collaborative, Agile Development Teams**.

SKILLS

Programming Languages: Python, C, Java

Frontend Development: React.js, HTML, CSS, JavaScript, Bootstrap

Backend Development: Django, RESTful API, MySQL

Expertise Area: Database Management System (DBMS), Data Structures and Algorithms (DSA), Programming, Development

Tools and Technologies: Git, GitHub (Version Control), VSCode, Postman, Adminer, Figma

WORK EXPERIENCE

Full-Stack Web + ML Developer

Nov 2022 - May 2024

Freelance

Kasaragod, India

- Worked on a **Django-based platform** that improved **Railway Track Defect Analysis and Maintenance Prediction** by **40%**, leveraging **HTML, Python, and JavaScript**. Aggregated and analyzed data from **50+ visual inspections and ultrasonic tests**, handling **4 defect types** with detailed **graphical and tabular analysis**. Helped engineers in **track testing and maintenance**.
- FLAMES'24 Sports Score Website:** Developed a **real-time sports score website** using **Django** and deployed on **Vercel**, serving **150+ students** during the event. Completed the project within **2 days**, ensuring **high functionality and performance**.

Full-Stack Web Developer Intern

Jan 2022 - Sep 2022

Hexmos Technology LLP

Bangalore, India

- Developed a **Polling Web Application** using **Django**, leading to a **30% increase** in **user engagement**.
- Contributed to a **Real-Time Video Conferencing Application** using **React.js**, enhancing **user experience**.
- Completed **6+** projects involving **API Development, data analysis, and responsive User Interface Design** during **internship tenure**, improving overall **project delivery time** by **20%**.

PROJECTS

SHOPEASE – AN ADVANCED ECOMMERCE WEB APPLICATION

Aug 2023 - Jun 2024

- Developed an eCommerce platform using **Django**, featuring **secure authentication, ML-based product categorization, and advanced sales analytics**. Implemented **CRUD** operations for **150+** products and integrated **dynamic PDF bill generation** during checkout.
- Enhanced user experience with a **hierarchical comment section, NLP and Regex-powered chatbot** for real-time support.

KTU STUDYMATE BOT – TELEGRAM BOT FOR STUDENTS

Jan 2024 - Jan 2024

- Developed a Telegram bot using **Python** and **Beautiful Soup** to automate the retrieval of PDF study notes for KTU Engineering students. It is used by **200+** students across **10+** engineering colleges in Kerala.

CERTIFICATIONS

Artificial Intelligence Primer Certification by Infosys

Aug 2024

Foundations of Cybersecurity by Google

Dec 2023

Database Management System by NPTEL

Oct 2023

Programming in Java by NPTEL

May 2023

AWARDS

IEEE Upsilon Pi Epsilon Honor Society Award by IEEE Computer Society and UPE

Apr 2024

- Recognized by the **IEEE Computer Society and UPE**, based on **academic achievements, computing-related activities**, and strong letters of recommendation. **One of four global recipients**, awarded a \$1,000 scholarship and a certificate.

State Level Participation in Rural Innovators Meet by Kerala State Council for Science, Technology and Environment

Nov 2023

- Developed a **Machine Learning Prototype** using **Random Forest Classifier** to protect farm areas from wild animals.

EDUCATION

BTech in Computer Science and Engineering

Aug 2021 - May 2025

LBS COLLEGE OF ENGINEERING, KASARAGOD - KERALA

GPA: 9.34

Higher Secondary Education (Science PCMB)

Jun 2019 - May 2021

NAVAJIVANA HIGHER SECONDARY SCHOOL PERDALA

GPA: 98.91 %