

Vijayakumar NK

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EDUCATION

EASWARI ENGINEERING COLLEGE

BE IN ELECTRONICS AND COMMUNICATION

Expected june 2026 | CGPA: 9.03/10.0

SARASWATHI MATRIC HR SEC SCHOOL

COMPUTER SCIENCE TOP SCORER
Grad. May 2022 | Cum Per: 94.00

LINKS

Github:// [kravenvijay04](#)
LinkedIn:// [vijayakumar-nk](#)
Leetcode:// [vijaykumarnr04](#)
(280+ problems)

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithm
React JS
Angular Intermediate
Problem Solving Through C Programming
Educational Leadership
Networking Basics

SKILLS

PROGRAMMING

ADVANCED:

Java • C++ • ReactJS • GIT • NPM's
ExpressJS • Matlab • NodeJS

INTERMEDIATE:

Javascript • MongoDB • Python

FAMILIAR:

C • MySQL • Typescript

RESPONSIBILITIES

- Co-organizer in NULL - Cyber Security Club
- IETE Member

EXPERIENCE

RANE MADRAS LTD | EMBEDDED ENGINEERING INTERN

December 2024 | Chennai, India

- Debugged **Electric Power Steering (EPS)** systems to ensure motor functionality as per the C code logic.
- Verified input and output voltage levels, achieving precise measurements with **97 percent** reliability
- Collaborated with the **Research and Development** team to analyze and enhance fail-safe mechanisms in EPS systems.

YBI FOUNDATION | DATA SCIENCE AND AIML INTERN

November 2024 | Chennai, India

- Developed a **Financial Market Analysis** project, utilizing machine learning to analyze market trends and sentiment.
- Integrated AI/ML models** with frontend page, enhancing backend and UI.
- Acquired advanced data science and **AI/ML skills**, contributing to **impactful outcomes**.

PROJECT

NOTIFY- NOTES TAKING APP [live link]

ReactJS | MongoDB | NodeJS | ExpressJS

- Effortless **CRUD** operations for notes and schedules
- Secure login/logout for **data security**
- Responsive UI** for smooth task management across devices

CONVEYOR BELT FAULT DETECTION SYSTEM [github link]

Machine Learning | C++ | Arduino | ESP-32

- Detects conveyor belt faults** using computer vision and sensors.
- Identifies damages and **measures thickness** to reduce costs.

RPS - ROCK PAPER SCISSOR [github link]

ReactJS | Redux

- Interactive Rock-Paper-Scissors with **score tracking** and results.
- Customizable max score** and restart option for seamless gameplay.

ACOUSTIC DETECTION FOR EMERGENCY ALERT IN SMART CITY

Artificial Intelligence | ReactJS | Triangulation

- Identifies and **classifies critical sounds**.
- Uses triangulation to pinpoint exact locations for real-time emergency alerts.

ACHIEVEMENTS

2024	pre-finalist	ICMICC'24, EEC
2024	finalist	Prof. KRS Inovation Challenge, Meenakshi Sundararajan
2024	2nd round	Tata Imagination Challenge'24
2023	finalist	Ventura, SSN
2011	finalist	Ease the Error 3.0, SVCE