

SARAVANAKUMAR G

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Education

Sri Eshwar College of Engineering, Coimbatore <i>B.Tech in Information Technology</i>	2024 – 2028 CGPA: 8.18 / 10.0
VEVEHAM Matric Higher Secondary School <i>HSC</i>	2022 – 2024 80.66%
RGM Matric Higher Secondary School <i>SSLC</i>	2020 – 2022 82.4%

Projects

- EcoFinds — Full-Stack E-Commerce Platform** *Sep 2025*
Developed a full-stack, responsive e-commerce application featuring secure JWT-based authentication, product CRUD, shopping cart, order management, and advanced category & keyword search with pagination. Implemented role-based access (admin/customer) and optimized queries for faster product listing. **Tech Stack:** React.js, Node.js, Express.js, MongoDB, JWT, CSS, Bootstrap
- HelpUp — Service Connection Platform** *Aug 2025*
Built a React-based platform connecting customers with local service providers. Implemented registration/profile management, role-based navigation, job posting, booking & acceptance workflow, and basic job tracking. Integrated Firebase Authentication and Firestore for scalable data. **Tech Stack:** React.js, Firebase Auth, Cloud Firestore, Node.js, Tailwind CSS
- ClarioBuddy — Campus Utility App** *Jul 2025*
Designed a mobile-first campus app offering announcements, lost & found reporting, timetable access, complaint submission, and secure login. Implemented modular UI screens, offline-read caching, and real-time updates. **Tech Stack:** Flutter, Dart, Firebase, Cloud Firestore
- RemoveBG — Automatic Image Background Remover** *May 2025*
Created an image-processing web tool to remove backgrounds automatically. Built backend pipeline using OpenCV and the `rembg` library for segmentation. Implemented a Flask service for uploads, processing queue, and downloadable outputs with responsive frontend UX. **Tech Stack:** Python, OpenCV, rembg, Flask, HTML, CSS, JavaScript
- ThinkNotes — Real-Time Notes App** *Apr 2025*
Developed a collaborative notes application supporting real-time synchronization, secure auth, note CRUD, and conflict handling for simultaneous edits. Ensured persistent cloud storage and responsive UI. **Tech Stack:** React.js, Firebase (Auth & Firestore), JavaScript, CSS
- Rover for Sand Excavation — (Autonomy Challenge 2025, manual operation)** *2025*
Built a rover prototype for sand excavation (manual/remote-controlled; autonomy module not included). Focused on mechanical design, motor control, excavation mechanism, and obstacle detection. Integrated DC motor drivers, ultrasonic sensors, and IoT telemetry for remote monitoring. **Tech Stack:** Arduino (C/C++), DC Motors, Motor Drivers, Ultrasonic Sensors, IoT telemetry

Workshops & Participations

- ZeroDay 24-Hour Full Stack Hackathon, Sri Eshwar College of Engineering (participant)
- Gamathon — SECE Gaming and Animation COE (participant)

- GameXcelerate — AIC RAISE (participant)
- DJAD International Workshop on Design (attendee)

Certifications

- The Complete Full-Stack Web Development Bootcamp (Udemy) — [View Certificate](#)
- Mastering Data Structures & Algorithms using C and C++ (Udemy) — [View Certificate](#)
- Python Complete Course and Flask Framework, HTML Essentials (Udemy) — [View Certificate](#)
- Build a Free Website with WordPress (Coursera) — [View Certificate](#)
- Canva for Beginners (Simplilearn) — [View Certificate](#)
- Introduction to Microsoft Excel (Coursera) — [View Certificate](#)

Achievements

- **Ripple Room – Srishti, PSG 2025 (Sep 2025):** Secured **2nd Prize** for project “*Li-Fi in Healthcare*”.
- Solved **200+ problems** on **LeetCode** and **800+ problems** on **SkillRack**.
- Secured **2nd place** in **Freshathon 2025 (Project Expo 3.0)**.
- Media and Content Lead — **Center for Innovation (CFI)**, Sri Eshwar College of Engineering.
- Participated and shortlisted for finals in the **Caterpillar Autonomy Challenge**.

Technical Skills

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| • Programming Languages: C, C++, Python, Java, Dart, JavaScript, HTML, CSS | Figma, WordPress |
| • Frameworks & Databases: React.js, Flask, Django, Firebase, MongoDB | • Design & Media: Photoshop, Illustrator, Premiere Pro, DaVinci Resolve |
| • Web & Mobile: Flutter, Bootstrap, Tailwind CSS | • Hardware & Embedded: Arduino, DC Motors, Motor Drivers, Ultrasonic Sensors, IoT |
| • Tools & Platforms: Git, GitHub, Netlify, VS Code, | • Other: Unity, Problem Solving, Team Collaboration |