

# SARAVANAKUMAR G

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 [linkedin.com/in/saravanakumar26022007](https://linkedin.com/in/saravanakumar26022007)  [github.com/Saravanakumar2602](https://github.com/Saravanakumar2602)  Portfolio

## Education

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

## Projects

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**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

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- 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

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- **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

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- **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
- **Web & Mobile:** Flutter, Bootstrap, Tailwind CSS
- **Tools & Platforms:** Git, GitHub, Netlify, VS Code, **Design & Media:** Photoshop, Illustrator, Premiere Pro, DaVinci Resolve
- **Hardware & Embedded:** Arduino, DC Motors, Motor Drivers, Ultrasonic Sensors, IoT
- **Other:** Unity, Problem Solving, Team Collaboration