# BALAMURALI

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## SUMMARY

Aspiring Full-Stack Developer skilled in the MERN stack and experienced in building real-time applications with Socket.io. Passionate about creating efficient, scalable, and user-focused web applications. Eager to leverage my problem-solving skills and technical foundation to contribute to an innovative engineering team and deliver impactful software solutions.

## EDUCATION

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|---|---|---|---|
| **B.E. Mechatronics Engineering** | Kongu Engineering College, Erode | (2026) | CGPA: 8.68 |
| **HSC** | Vedavalli Vidyalaya Hr. Sec. School, Ranipet | (2022) | 83.2% |
| **SSLC** | Vedavalli Vidyalaya Sr. Sec. School, Ranipet | (2020) | 80.6% |

## AREA OF INTEREST

- Full Stack Development
- Electron Devices And Digital Circuits

## SKILLS

**Programming Languages:** C, C++, Java, Python
**Frontend:** HTML, CSS, JavaScript, ReactJS, Tailwind CSS
**Backend and Databases:** Node.js, Express.js, MongoDB, MySQL
**Development tools:** Git, VS Code, Postman
**Other Softwares:** AutoCAD, SolidWorks, EAGLE (PCB), LabVIEW

## PROJECTS

**Textrovert [View Demo]** August 2025
*MongoDB, Express.js, React, Node.js, JWT, Socket.io*

- Built a chat application secured with JWT-based authentication and achieved real time messaging with socket io.
- Engineered with REST API sends ( 275ms) and WebSocket receives (0ms), eliminating 100% of client polling.

**Personal Portfolio [View Demo]** July 2025
*React, Tailwind CSS, Framer Motion, Typed.js, tsparticles*

- Designed and deployed a responsive portfolio website to showcase projects and technical skills.
- Improved visibility and engagement with optimized React components and interactive animations.

**Product Catalog CMS [View Code]** April 2025
*MongoDB, Express.js, React, Node.js, Chakra-UI*

- Developed a lightweight CMS to help small businesses digitally manage their product catalog.
- Simplified product tracking, making updates and retrieval faster compared to manual records.

## CERTIFICATIONS

- MongoDB Associate Developer - MongoDB - 2025
- Ethical Hacking - NPTEL - 2023

## ACHIEVEMENTS

- Won 3rd Prize In Tech Geeks Ideas Out Of 30+ teams At Kongu Engineering College - 2024
- Won 2nd Prize In World Food Day 2 Min Video Contest At Kongu Engineering College - 2023

## LEADERSHIP AND RESPONSIBILITY

**Executive Head – IEEE Robotics and Automation Society**
*Led a team to organize paper presentation, participated by over 200+ students.*

**Member – National Service Scheme (NSS)**
*Volunteered in 10+ community initiatives like blood donation camps, awareness rallies, and survey camps, contributing to local health and social welfare.*