

# PANDIKANNAN M

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## SUMMARY

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Enthusiastic Web Developer and IT graduate with experience in full-stack application development, responsive web design, and database management. Skilled in building interactive websites, e-commerce platforms, and IoT-based projects. Committed to delivering efficient, user-focused solutions and continuously enhancing technical skills.

## TECHNICAL SKILLS

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- **Programming Languages:** Python, JavaScript
- **Web Technologies:** HTML, CSS, Tailwind CSS, React, Responsive Web Design, Node.js, Express.js, REST API
- **Database:** MySQL, SQL, Database Management
- **Tools:** Git, GitHub, VS Code
- **Others:** YOLOv8, Arduino, MS Excel

## PROJECTS

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### E-Commerce Website

- Built a full-stack e-commerce platform with HTML, CSS, JavaScript frontend and Node.js + Express backend.
- Integrated MySQL database for product management and cart functionality.
- Implemented features like Add to Cart, Clear Cart, and Order Placement.

### Personal Portfolio

- Designed a responsive personal portfolio using Tailwind CSS and AOS animations.
- Showcases projects, skills, resume, and certifications, with dark mode support.
- View work: <https://pandi-kannan.github.io/portfolio/>

### Real-Time Traffic Density Monitoring

- Developed an IoT-based traffic management system using YOLOv8 object detection.
- Optimized signal stability with Arduino integration, reducing flickering by 40%.

## CERTIFICATIONS

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- Oracle AI Foundation Associate
- HackerRank SQL (Basic to Advanced)
- CodeChef DAA
- ArduYOLO – Published in IEEE Xplore

## ACHIEVEMENTS

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- Published a paper on Real-Time Traffic Density Monitoring using YOLOv8 & Arduino at IEEE ICCES 2025 (IEEE Xplore Digital Library).
- Participated in an Inter-College Hackathon at Kalasalingam University; demonstrated teamwork and problem-solving.
- Attended a Blockchain & Cryptocurrency Workshop at Karpagam College of Engineering.

## EDUCATION

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- **B.Tech IT** – Kalasalingam Academy of Research and Education (2021–2025) | CGPA: 8.3
- **HSC** – HNUPR Matriculation Higher Secondary School (2019–2021) | 87.5%
- **SSLC** – HNUPR Matriculation Higher Secondary School (2018–2019) | 84.2%