

YONADHAN M M

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EDUCATION

TKM College of Engineering, Kollam, Kerala 2021 – 2024
B.Tech in Electronics and Communication Engineering CGPA: 7.7

St. Berchmans Higher Secondary School, Kottayam, Kerala 2017 – 2019
Plus Two (Biology) Percentage: 85.5

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL
Frameworks Libraries: React, Redux Toolkit, Node.js, Express.js
Databases: MongoDB (Atlas), MySQL, PostgreSQL
Developer Tools: Git, Docker, Postman, Figma, VS Code, Canva
Architectures: Clean Architecture, Repository Pattern, MVC
UI Styling: HTML, CSS, Tailwind CSS, Bootstrap, SCSS
Other Skills: JWT Authentication, Payment Integration (Razorpay)

SOFT SKILLS

Problem-Solving, Team Collaboration, Adaptability, Communication, Time Management, Critical Thinking, Leadership

PROJECTS

OceanOfLaptops (Ecommerce WebApp) | MERN STACK 2024 – 25

- Built a full-stack e-commerce platform with role-based views for **users and admins**, deployed on Vercel (frontend) and AWS EC2 (backend).
- Implemented **JWT authentication with refresh tokens** and Google OAuth for secure login.
- User features: Landing/Home/Shop/About pages, order history, wallet, wishlist, laptop comparison, **Razorpay payments with retry on failure**.
- Admin features: Dashboard with sales analytics, most-selling products categories, order management with **custom PDF/Excel exports**, category and user management, product CRUD.
- Integrated MongoDB for scalable data storage.

Integrated Vehicle Health Management (IVHM) System

FPGA, Real-Time Systems Jun 2023 – Feb 2024

- Collaborated with TKM College of Engineering and Vikram Sarabhai Space Centre to develop a real-time IVHM system for launch vehicles.
- Implemented adaptive limit checks, sensor arrays, and diagnostic algorithms for early anomaly detection.
- Enhanced launch vehicle safety, reliability, and mission success through proactive monitoring.
- Published in *International Research Journal on Advanced Science Hub*, Vol. 06, Issue 03, March 2024.
- DOI: [10.47392/IRJASH.2024.007](https://doi.org/10.47392/IRJASH.2024.007)

TRAINING

Full Stack Developer Bootcamp July 2024 - January 2025
Self-Learning and Project Development Kerala, India

- Completed intensive training in MERN stack (MongoDB, Express.js, React.js, Node.js) and built full-stack projects.
- Developed a scalable E-commerce web application with features like product filtering, cart, payments, admin panel, and Google Authentication.
- Applied data structures and algorithms (arrays, linked lists, stacks, queues, graphs, dynamic programming) to solve coding problems and improve problem-solving skills.
- Focused on writing clean, maintainable code with modern JavaScript frameworks and CSS (Tailwind CSS).
- Gained hands-on experience in building responsive, user-friendly websites and working with REST APIs.

CODING PLATFORMS

- Solved Problems on **LeetCode**. <https://leetcode.com/u/yonadhanmm77/>
- Solved Problems on **HackerRank**. <https://www.hackerrank.com/profile/yonadhanmm0>

PUBLICATIONS

[Launch Vehicle Integrated Health Management System Model](#) | IRJASH, Vol. 6, Issue 3 **Mar 2024**

- Co-authored a research paper in collaboration with VSSC and TKM College, focusing on real-time Integrated Vehicle Health Management (IVHM) systems for launch vehicles.
- The system uses sensor-based data acquisition with adaptive limit checking for fault detection, enhancing safety and enabling proactive maintenance.
- Published in the *International Research Journal on Advanced Science Hub (IRJASH)*. DOI: [10.47392/IRJASH.2024.007](https://doi.org/10.47392/IRJASH.2024.007)

CERTIFICATIONS

- [The Complete Python Bootcamp From Zero to Hero in Python – Jose Portilla, Udemy](#) (Completed on 09/11/2023)
- [The Complete JavaScript Course 2025: From Zero to Expert! – Jonas Schmedtmann, Udemy](#) (Completed on 12/20/2023)