

# BARATH Y

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## SUMMARY

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Leveraging expertise in full-stack web development, particularly within the MERN stack, with hands-on experience in delivering innovative web solutions. Dedicated to enhancing user experiences through responsive design and real-time features, with a focus on creating transformative applications that integrate modern technologies for impactful digital interactions.

## TECHNICAL SKILLS

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**Programming Languages:** Java, C++, JavaScript.

**Frontend:** HTML, CSS, Bootstrap, React.js, Tailwind CSS, jQuery.

**Backend:** Node.js, Express.js, EJS, JWT, Socket.IO, REST APIs.

**Databases:** MongoDB, MySQL, Redis.

**Tools & Technologies:** Git, GitHub, GitLab, Postman, Docker, Figma, Notion, Render, Vercel, DiagramGPT.

## PROJECTS

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### NFT Marketplace – Decentralized NFT Trading Platform

Github

- Developed a decentralized NFT marketplace with React.js frontend and Internet Computer smart contracts using Motoko for minting, listing, and trading NFTs.
- Integrated decentralized storage, personal dashboards, and optimized UI with Material-UI, lazy loading, and modular architecture.

**Technologies Used:** React.js, JavaScript, Material-UI, Internet Computer, Motoko, Candid, Canisters

### Chat Application – Real-Time Messaging Platform

[Live Link](#) | [GitHub](#)

- Developed a secure platform enabling users to exchange messages instantly with real-time updates.
- Ensured seamless bi-directional communication and smooth user experience through real-time event handling.
- Enabled media sharing with optimized upload and delivery, enhancing user engagement.
- Deployed a scalable backend infrastructure to support high traffic and maintain performance.

**Technologies Used:** React.js, Node.js, Express, MongoDB, Socket.IO, JWT, Cloudinary, Tailwind CSS, DaisyUI

### ShoppY – Full-Stack E-Commerce Application

[Live Link](#) | [GitHub](#)

- Built a secure and responsive e-commerce platform supporting user authentication, cart, wishlist, order tracking, and payment workflows.
- Designed and developed RESTful APIs with scalable backend logic and efficient database querying using MongoDB and Mongoose.
- Integrated real-time customer support using **Socket.IO** and an **AI-powered chatbot (FastBots AI)** for instant automated assistance.
- Developed an admin dashboard with role-based access for managing products, orders, users, and inventory.

**Technologies Used:** React.js, Node.js, Express.js, MongoDB, Redux Toolkit, JWT, PayPal SDK, Tailwind CSS, Socket.IO, FastBots AI

## EXPERIENCE

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### Participant – Smart India Hackathon 2023

Dec 19 – 20, 2023

Ministry of Education, Government of India

Onsite

- Collaborated in a 6-member team to develop a high-efficiency solution for boosting data transfer rates between networks using packet-based transmission.
- Played a key role in identifying and implementing the **Huffman Coding Algorithm** to compress blockchain packet frames.
- Optimized data throughput by reducing payload size, lowering gas costs, and improving the overall speed of blockchain data transfer.

## EDUCATION

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### RMK Engineering College

2022 – 2026

*B.Tech in Computer Science and Engineering*

*CGPA: 7.9 / 10*

### Vellayan Chettiar Higher Secondary School

2020 – 2022

*HSC (Computer Science Group)*

*Percentage: 83%*

### Vellayan Chettiar Higher Secondary School

2014 – 2019

*SSLC*

*Percentage: 75.2%*

## CERTIFICATIONS

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- Udemy – Successfully Completed The Web Development BootCamp course taught by Dr. Angela Yu.
- Udemy – Successfully Completed The MERN From Scratch 2023 course taught by Brad Traversy.