

DHARUN PRAKASH J A

MERN STACK DEVELOPER

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PROFESSIONAL SUMMARY:

Full Stack Developer (MERN) with hands-on experience building scalable, production-ready full-stack applications using MongoDB, Express.js, React.js, and Node.js. Proficient in both microservices and monolithic architectures, real-time communication, IoT integration, and secure authentication systems. Experienced in cloud deployment (AWS), version control workflows, and leveraging modern development tools including AI-assisted coding for rapid problem-solving.

EDUCATION:

Muthayammal Engineering College — B.Tech in AI & Data Science CGPA: 8.5	2022 – 2026
Royal Park Matric Higher Secondary School — HSC Percentage: 77%	2021 – 2022
Royal Park Matric Higher Secondary School — SSLC Percentage: 98%	2019 – 2020

TECHNICAL SKILLS:

LANGUAGES: Java, JavaScript, HTML, CSS

FRONTEND: React.js, Next.js, Material-UI, Bootstrap, React Router, Framer Motion, Responsive Design

BACKEND: Node.js, Express.js, RESTful APIs, Monolithic Architecture, Microservices Architecture ,Discovery Server

DATABASE: MongoDB, MySQL, Firebase , MongoDB Atlas Cluster, Aiven Cluster

APIs: Twilio SMS,Gemini API , Piston engine

SECURITY & AUTH: JWT, bcryptjs, OAuth, Firebase Auth, Role-Based Access Control, Tokenization

CLOUD & DEVOPS: AWS (EC2, S3, RDS, IAM, Elastic Bean Stalk, Lambda ,VPC), Version Control via Git, GitHub

IOT & HARDWARE: Arduino, RFID, NFC, Arduino IDE, Raspberry Pi

TOOLS & LIBRARIES: VS Code, NPM, body-parser, cors, dotenv, CryptoJS, uuid, QRcode.react, Chart.js, Recharts, Lucide React Icons, jsPDF, Multer , Mongoose , Nodemon , Socket.IO, Axios,

PROJECT:

TITLE: NFC-BASED LIBRARY CATALOG

LANGUAGES: MongoDB, Express, React, Node.js,C++

- Developed contactless library system using Arduino and RFID module connected via jumper wires; coded Arduino (C++ via Arduino IDE) to transmit NFC data to Node.js Express backend with WiFi
- Built backend to parse NFC text data to JSON, store in MongoDB via Mongoose; used body-parser, cors for request handling; implemented cron jobs for overdue detection and automated fine assignment
- Deployed Socket.IO for real-time bidirectional updates between backend and React frontend, displaying live

student/book status; integrated Twilio for SMS alerts on overdue books and fines

- Created responsive React dashboard with Material-UI and Bootstrap; users borrow/return via UI with instant data sync; fine calculation automated with continuous SMS notifications until book return

TITLE: BILL MANAGEMENT FOR COLLEGE OFFICE

LANGUAGES: MongoDB, Express, React, Node.js

- Developed role-based bill management application with MERN stack and JWT authentication; designed dynamic form capturing FY year, month, categories, departments, vehicles with Multer file upload
- Built backend with image-size for dimension detection, image-to-pdf and PDFKit for PDF generation, Sharp for high-performance image processing (resize, compress), body-parser and cors for communication
- Created responsive frontend with React, Material-UI, Bootstrap, react-router-dom, and axios; displayed bills in interactive data grid with custom filters, admin-controlled edit/delete, and CRUD operations
- Implemented PDF export using jsPDF, consolidated summary reports for date ranges, admin-controlled FY/month allocation, and efficient MongoDB querying for expense analysis by category, department, and time period

INTERNSHIPS:

Zealous Tech Corp, Salem

Duration: March - June 2025

Role: Junior MERN Stack Developer

- Architected full-featured Learning Management System using MERN stack with React Bootstrap, Material-UI, Framer Motion, Socket.IO for real-time updates, Chart.js and Recharts for data visualization
- Implemented secure JWT authentication with bcryptjs password hashing, role-based access control (student/admin), session management using localStorage, and dotenv for credential security
- Developed responsive MCQ and coding platform supporting multiple languages with in-browser compiler, PDF report generation using jsPDF, certificate generation with qrcode.react and Firebase validation
- Built backend with Express.js and MongoDB/Mongoose, integrated Papaparse for CSV processing, uuid for unique IDs, CryptoJS for data encryption, body-parser and cors for secure HTTP handling, Nodemon for development efficiency

ACHIEVEMENTS & CERTIFICATIONS:

- 1st Runner Up, HackIndia Hackathon 2025
- MERN Stack Developer Internship – **Zealous Tech Corp**
- Project selected for national-level innovation program, IDE Bootcamp Phase II 2025
- Node Microservice Developer Internship – **Zealous Tech Corp**
- Programming in Java – **NPTEL**