

ARUN A

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PROFESSIONAL SUMMARY

Entry-level Software Development Engineer with experience in MERN stack development and problem-solving. Built real-world full-stack projects and gained exposure to LLM and RAG concepts through hackathons and applied work.

EDUCATION

Sri Shakthi Institute of Engineering and Technology
B.E. Computer Science and Engineering — CGPA: 8.29

Coimbatore, India
Sept 2023 – Present

TNSS Gandhi Vidhyalaya Higher Secondary School
Higher Secondary Education (Computer Science) — 89.5%

Tirupur, India
Jun 2022 – Mar 2023

ACHIEVEMENTS

- Top 12 Finalist, **TruthTell Hackathon (HackerEarth)** — National-level competition, Apr 2025; built *Falo AI*, a real-time misinformation detection platform and represented the team at the Grand Finale in New Delhi.
- Winner, **Web Defost Event** at Kongu Engineering College, 2025 — Web Development competition.
- Delivered production-ready web applications for **La Patisserie**, **Luxor Holiday Homestays**, and **Casual Clothings**, generating over **30,000** in client revenue.
- Published a research paper titled "**Cinematic Popcorn Park as CineMax**" in the **International Scientific Journal of Engineering and Management (ISJEM)**, May 2025.
- Published a research paper on **machine learning-based honeynet systems** in the **International Journal of Progressive Research in Engineering Management and Science (IJPREMS)**.
- Solved **200+ algorithmic problems** across LeetCode and HackerRank. Profile: codolio.com/profile/arun_743
- Completed a practical **Full Stack Development workshop** by **GUVI & HCL**, gaining hands-on experience by developing a *real world Application*, Dec 2024.
- **District-level Football Champion**; Division-level Runner-up in Tamil Nadu (2023).

TECHNICAL Skills

- **Programming Languages:** C, Java, JavaScript
- **Web Technologies:** HTML, CSS, React, Redux, Tailwind CSS, Bootstrap, EJS
- **Backend Development:** Node.js, Express.js, RESTful APIs, WebSockets
- **Databases:** MongoDB, MySQL, Firebase Firestore
- **Developer Tools:** Git, GitHub, Postman, Firebase, VS Code, IntelliJ IDEA
- **Deployment & Infrastructure:** Vercel, Netlify, Cloudflare

EXPERIENCE

Freelance Full Stack Developer (Contract)

Sep 2025 – Nov 2025

La Patisserie, Coimbatore

- Architected and deployed a **MERN-based e-commerce platform** with separate user and admin workflows for streamlined order processing.
- Crafted a modern, **fully responsive UI** optimized for desktop, tablet, and mobile devices.
- Engineered **RESTful API endpoints** for product listings, cart, wishlist, and order management.
- Built **admin-configurable delivery zone validation** to restrict orders outside serviceable locations.
- Incorporated **Razorpay payment gateway** for secure online transactions: thelapatisserie.vercel.app.

Freelance Frontend Developer (Contract)

Jun 2025 – Aug 2025

Luxor Holiday Homestays, Chennai

- Built the **React frontend** including homepage, villa listings, detail pages, and contact modules.
- Created **reusable UI components** with **Redux state management** for smooth navigation and consistent user experience.
- Optimized **image lazy loading and search functionality** for faster page performance: luxorholidayhomestays.com.

Freelance Full Stack Developer (Contract)

Jan 2025 – May 2025

Casual Clothings Fashion Pvt Ltd, Tirupur

- Delivered a **production-grade MERN e-commerce platform** with **role-based access control** for customers, staff, and administrators.
- Engineered backend systems for **inventory management** and **bulk order processing** to support scalable operations.
- Incorporated **secure payment workflows** with **server-side validation** for reliable transactions.
- Crafted a **responsive, user-centric interface** with optimized checkout flow and **admin dashboards**: casualclothings.shop.

PROJECTS

AI Travella | React, Firebase

Apr 2025 – Jun 2025

- Created an **AI-driven travel planning application** generating **personalized itineraries** with hotel suggestions and day-wise activity plans.
- Built a **community-driven travel feed** supporting **real-time updates** for trip sharing, follows, likes, and comments.
- Configured **Firestore security rules** to protect private trip data while enabling controlled social interactions.
- Implemented a **resilient AI response parser** capable of handling inconsistent API outputs without affecting application stability.
- Live: ai-travella-duag.vercel.app Source: github.com/Arunarivalagan743/AI_Travella

HealQ | React Native, Node.js, MongoDB

Aug 2025 – Oct 2025

- Built a **mobile healthcare application** streamlining clinic operations including appointment booking, **digital prescriptions**, and payments.
- Engineered a **real-time queue tracking system** enabling patients to monitor their turn remotely via **SSE notifications**.
- Incorporated **secure payment workflows** with **JWT authentication** and transaction tracking for reliable appointment processing.
- Implemented **node-cron scheduling** for automated appointment reminders, queue position updates, and expired booking cleanup.
- Source: github.com/Arunarivalagan743/HealQ

CinematicPopcornPark | MERN, Socket.IO

Oct 2024 – Dec 2024

- Developed an **end-to-end movie ticket booking system** with **live seat selection**, parking allocation, and **online payments**.
- Architected **real-time seat synchronization** via **Socket.IO** to handle concurrent users and eliminate double-booking conflicts.
- Secured authentication using **Google OAuth 2.0** and **JWT tokens** with separate user and admin access control.
- Built **event-driven seat release logic** and scheduled tasks for show creation, parking allocation, and stale booking cleanup.
- Live: cinimax.vercel.app Source: github.com/Arunarivalagan743/Cinematic-popcorn-Theatre-Experience

CERTIFICATIONS

- **MongoDB Node.js Developer Path** — MongoDB University (Score: 84%, Jan 2026)
- **Machine Learning** — Coursera (Score: 84%, Jan 2026) — Supervised and Unsupervised Learning
- **GitHub Foundations** — GitHub Skills (Score: 88%, May 2025)
- **Java Programming** — NPTEL (Score: 79%, Apr 2025)
- **Full Stack Web Development** — Udemy (Dec 2024)

ADDITIONAL INFORMATION

- **Languages:** English, Tamil
- **Hobbies:** Drawing, Reading Books, Playing sports