

# 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

<b>Sri Shakthi Institute of Engineering and Technology</b> <i>B.E. Computer Science and Engineering — CGPA: 8.29</i>	Coimbatore, India Sept 2023 – Present
<b>TNSS Gandhi Vidhyalaya Higher Secondary School</b> <i>Higher Secondary Education (Computer Science) — 89.5%</i>	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 Defest 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](https://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

<b>Freelance Full Stack Developer (Contract)</b> <i>La Patisserie, Coimbatore</i>	<b>Sep 2025 – Nov 2025</b>
– Architected and deployed a <b>MERN-based e-commerce platform</b> with separate user and admin workflows for streamlined order processing. – Crafted a modern, <b>fully responsive UI</b> optimized for desktop, tablet, and mobile devices. – Engineered <b>RESTful API endpoints</b> for product listings, cart, wishlist, and order management. – Built <b>admin-configurable delivery zone validation</b> to restrict orders outside serviceable locations. – Incorporated <b>Razorpay payment gateway</b> for secure online transactions: <a href="https://thelapatisserie.vercel.app">thelapatisserie.vercel.app</a> .	
<b>Freelance Frontend Developer (Contract)</b> <i>Luxor Holiday Homestays, Chennai</i>	<b>Jun 2025 – Aug 2025</b>
– Built the <b>React frontend</b> including homepage, villa listings, detail pages, and contact modules. – Created <b>reusable UI components</b> with <b>Redux state management</b> for smooth navigation and consistent user experience. – Optimized <b>image lazy loading and search functionality</b> for faster page performance: <a href="https://luxorholidayhomestays.com">luxorholidayhomestays.com</a> .	
<b>Freelance Full Stack Developer (Contract)</b> <i>Casual Clothings Fashion Pvt Ltd, Tirupur</i>	<b>Jan 2025 – May 2025</b>
– Delivered a <b>production-grade MERN e-commerce platform</b> with <b>role-based access control</b> for customers, staff, and administrators. – Engineered backend systems for <b>inventory management</b> and <b>bulk order processing</b> to support scalable operations. – Incorporated <b>secure payment workflows</b> with <b>server-side validation</b> for reliable transactions. – Crafted a <b>responsive, user-centric interface</b> with optimized checkout flow and <b>admin dashboards</b> : <a href="https://casualclothings.shop">casualclothings.shop</a> .	

## Projects

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- 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 **Firebase 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](https://ai-travella-duag.vercel.app) Source: [github.com/Arunarivalagan743/AI\\_Travella](https://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](https://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](https://cinimax.vercel.app) Source: [github.com/Arunarivalagan743/Cinematic-popcorn-Theatre-Experience](https://github.com/Arunarivalagan743/Cinematic-popcorn-Theatre-Experience)

## CERTIFICATIONS

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- **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

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