

Arun A

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SUMMARY

- Pre-final year Computer Science student with hands-on experience in **MERN development, backend APIs, databases**, and real-world projects. Skilled in web development and interested in exploring **all modern web stacks**. Quick learner with strong **problem-solving skills** and a collaborative mindset, able to adapt and work across different technologies.

EDUCATION

Sri Shakthi Institute of Engineering and Technology <i>B.E. in Computer Science and Engineering, CGPA: 8.38</i>	Coimbatore, India Sept 2023 – Present
– Relevant coursework: Data Structures, Algorithms, DBMS, OOPS, Operating Systems, Computers Networks.	
TNSS Gandhi Vidhyalaya Higher Secondary School <i>Higher Secondary (Computer Science) – 89.5%</i>	Tirupur, India June 2022 – Mar 2023

ACHIEVEMENTS

- Top 25 Finalist – **HackerEarth TruthTell Hackathon** (Apr 2025) for building *Falo AI* with advanced algorithms and system design, New Delhi.
- Collaborated with multiple clients to build high-quality web applications, solving their requirements effectively and earning through project-based work during my free time.
- Published a research paper titled “**Cinematic Popcorn Park as CineMax**” in the **International Scientific Journal of Engineering Management (ISJEM)**, May 2025.
- Contributed and collaborated on open-source projects on GitHub, gaining valuable hands-on experience in real-world codebases and modern development workflows.
- Certifications: Java – NPTEL, Web Development – Udemy, GitHub Foundations – GitHub Skills
- Competitive Programming: Solved 200+ problems across LeetCode and HackerRank. (codolio.com/arun-743)
- Leadership: Winner District-level Football Championship (2023) and Division 2nd Runner-up in Tamil Nadu.
- Conducted and coordinated multiple events — from coding competitions to non-technical activities — for the inter-college fest “**KALAM**”.
- Earned over 45,000 by delivering high-quality projects for clients including **La Patisserie, Luxor Holiday Home Stays, and Casual Clothings**.
- Additional: Hobbies include Football, Cricket, Drawing, and Reading.

TECHNICAL SKILLS

- Languages: C, Java, JavaScript, Python, HTML, CSS
- Frontend: React.js, Redux, Tailwind CSS, Bootstrap, EJS, Responsive Web Design
- Backend & Software Engineering: Node.js, Express.js, FastAPI, RESTful APIs, Microservices Architecture, SDLC, Debugging, Unit Testing (basic)
- Databases: MongoDB, PostgreSQL (SQL queries), MySQL, Firestore
- AI/ML & RAG: Retrieval-Augmented Generation (RAG), Large Language Models (LLMs), Clustering, Classification
- Tools & Platforms: Git, GitHub, Firebase, Postman, VS Code, IntelliJ IDEA, Vercel, Netlify

WORK EXPERIENCE

Full Stack Developer – User & Admin Module Consultant Sep 2025 – Nov 2025

La Patisserie, Coimbatore

- Architected, implemented, tested, and deployed a **MERN-based e-commerce application** with responsive **User/Admin dashboards** aligned to client business requirements.
- Implemented key modules: **Cart, Wishlist, Recently Viewed, Orders, Category & Product CRUD, and Contact Management** with reliable, scalable **API-database interactions**.
- Configured and maintained a secure **Razorpay-powered checkout** with optional **donation support** for social initiatives, along with ongoing **bug fixes** and **performance tuning**. Live at: lapatisserie.shop

Full Stack Developer – Admin Module Consultant Mar 2025 – May 2025

Casual Clothings Fashion Pvt Ltd, Tirupur

- Delivered a complete MERN e-commerce solution featuring a full **Admin Module** (role-based access, order dashboard, inventory controls) and end-to-end **user product display, address selection, checkout flow, and profile management**.
- Designed and built **User Profile UI** with editable details, addresses, and order history, plus corresponding **admin-side user management** for oversight and updates.
- Engineered **custom order** and **bulk order** capabilities and consistent **REST architecture**, collaborating closely with the client on enhancements and bug fixes. Live at: casualclothings.shop

Frontend Developer Intern – Auth & UI Jun 2025 – Aug 2025

Luxor Holiday Homestays, Chennai (Internship)

- Created the frontend for a MERN-based **villa booking platform** using **React.js**, covering all user-facing pages including **Home, Villas List, Villa Details, About, Contact, Profile**, and essential footer sections.
- Implemented responsive **UI/UX** with advanced **state management, reusable components**, smooth navigation, and full user profile flows, refined through iterative client feedback and communication.
- Optimized frontend performance using efficient **image-loading techniques** and **search logic**, reducing page load time by **30%**. Live at: luxorholidayhomestays.com

PROJECTS

AI Travella | React, Vite, Tailwind CSS, Firebase, Google Gemini AI Live | Source

- Built a modern **AI-powered travel planner** in **React** that generates personalized multi-day itineraries with **Google Gemini AI**, including **hotel, weather, and transport** suggestions.
- Added advanced features like **PDF itinerary export**, privacy controls (**public/private trips**), real-time image integration via **Google Places API**, and a progressive **multi-step trip creation** flow.
- Delivered interactive social features (**sharing, likes, comments, follows, discovery**) with real-time **Firebase** updates.

Falo AI | Python, FastAPI, LLM, RAG Live | Source

- Designed and implemented the backend architecture using **Python FastAPI**, exposing secure **APIs** for **text analysis, URL checking, source validation**, and **real-time misinformation detection**.
- Integrated external verification tools including **VirusTotal API, IPQS**, and **URL reputation checks** to validate links, detect harmful content, and enhance **trust scoring** accuracy, collected and curated domain-specific datasets through **web scraping**.
- Constructed and optimized a full **RAG pipeline** with **embeddings, FAISS-based vector search**, and indexed **knowledge retrieval** to boost **LLM** response relevance.

CineMax | MERN, Tailwind CSS, Stripe, Socket.IO Live | Source

- Engineered a full-featured MERN-based movie booking system with real-time seat selection, parking reservation, showtime browsing, and mobile-responsive UI.
- Implemented concurrent seat booking logic using efficient algorithms and **Socket.IO** real-time updates to prevent **double-booking** under high traffic.
- Designed a robust **Admin Dashboard** with movie CRUD, showtime scheduling, seat & parking inventory control, user management, analytics charts, and customer support tools.