



EDUCATION AND SCHOLASTIC ACHIEVEMENTS			
Program	Institute	% / CGPA	Completion
B.Tech in Metallurgical and Materials Engineering	Indian Institute of Technology, Madras	7.75	2027
Minor in Personal and Professional Development*	Indian Institute of Technology, Madras	9.5	2027
Class XII (ISC)	Loyola School, Thiruvananthapuram	95.25	2022
Class X (ICSE)	Loyola School, Thiruvananthapuram	97.60	2020
Secured a top rank in JEE Advanced 2023 among 2.5L+ candidates and high score in JEE Main 2023 among 12L+ candidates throughout India			
Achieved a top rank in KEAM 2023 among 1.3L+ candidates, demonstrating exceptional performance in Kerala's engineering entrance exam			
Knight on LeetCode , placing in the top 1.5% of Biweekly Contest 190 (518/38,291) and among top 1.7% of Weekly Contest 515 (768/45,690)			
Ranked among the top 4% globally (347/9,640) in Codeforces Round 1108 (Div. 2), achieving a 1500+ rating and earning Specialist status.			
Round I Qualifier – Fintech Olympiad 2024 , selected among the top 250+ participants from IIT Madras in a fintech competition			
PROFESSIONAL EXPERIENCE			
AI-Stealth Startup-Intern <i>(PPO Offered)</i> May 2026 – Jul 2026	CLOUD CONTACT CENTER PLATFORM		
	- Built a multilingual Voice AI agent at ~300ms latency, reliably handling 10K+ calls/month (Gemini, ElevenLabs). - Designed a call-analytics pipeline (FastAPI/Celery/Postgres), cutting time by 25% & AI cost 38% on 100K+ calls. - Scaled a Kubernetes-based CRM¹ & telephony stack to handle more than 200 concurrent calls in production		
	REAL-TIME AGENT ASSIST & CONVERSATION INTELLIGENCE		
	- Built a knowledge-base-driven AI copilot within a CRM helping real estate agents engage with clients efficiently - Engineered a predictive dialing engine with concurrent bgapi batch dispatch under a hard 3% abandon rate cap - Developed a dual-model call-audit pipeline (ElevenLabs + Gemini) extracting BANT/MEDDPICC in ~90s per call.		
	KYC-AS-A-SERVICE PLATFORM		
Bluestock Fintech-Intern May 2025 – Jul 2025	- Built a secure multi-tenant KYC² as-a-Service platform, orchestrating verification through one scoped API key. - Integrated Surepass API using a pluggable KycProvider interface unifying five external KYC verification services - Implemented signed HMAC-SHA256 webhooks with Redis-queued retries on a 1m-5m-15m-1h-6h-24h ladder.		
	- Built the responsive frontend for a real-time IPO³ market-insights web app with interactive data visualization. - Implemented a secure user authentication via Google OAuth alongside a streamlined onboarding flow for users - Coordinated with backend engineers to finalize and ship features, validating overall code quality before release		
PROJECTS			
LiveLine <i>faster-whisper · Llama 3.2 · Ollama · Piper</i>	Built a fully local, low-latency Voice AI phone agent processing real-time audio for zero-cost conversations.		
	- Built an end-to-end on-device Voice AI phone agent (Whisper, Llama 3.2, Piper) optimized on an RTX 3050 GPU - Achieved ~1.8s end-to-end latency at exactly \$0/call, versus ~\$0.03-0.05/min for cloud STT+LLM+TTS platforms - Integrated Twilio/Plivo Media Streams via WebSocket with Silero VAD for a sub 100ms audio barge-in response Cut response latency from 4.2s to 1.8s (57%) via per-stage profiling, validated across 50+ test calls, five intents. - Packaged the <4GB stack into a one-command Docker deployment with a local config/monitoring dashboard.		
Document Q&A System <i>LangChain · ChromaDB · Gemma-4B</i>	Built a hallucination-resistant RAG pipeline for highly accurate Q&A across multi-format documents.		
	- Engineered a LangChain pipeline to parse, chunk, and embed multi-format documents into a Chroma vector DB - Implemented a RAG architecture using a Gemma-4B Model and instructor-xl embeddings for semantic retrieval - Designed custom prompts to constrain the LLM, mitigating hallucinations while enforcing strict factual accuracy		
Redis Clone <i>C · TCP Sockets · Event Loop</i>	Engineered an in-memory key-value store from scratch in C featuring a custom non-blocking event loop.		
	- Engineered a fast in-memory key-value server in C over TCP sockets using a non-blocking poll-based event loop - Designed fast hashtable for O(1) key lookups and a balanced AVL⁴ tree to easily manage sorted-set operations. - Implemented TTL⁵ key expiration using a min-heap and added a thread pool to offload complex blocking tasks.		
Expense Splitter <i>PERN</i>	Built a group expense tool to compute costs and simplify multi-person debt settlements.		
	- Engineered a PERN backend with relational schemas for users, groups, and expenses enforcing data integrity. - Implemented a debt-simplification algorithm minimizing settlement among group members via greedy method - Built a React.js frontend with JWT⁶ authentication, enabling real-time balance tracking across multiple groups.		
Huffman File Compressor <i>C++</i>	Developed a fast, bit-level lossless file compression tool in C++ using Huffman algorithms.		
	- Developed a fast lossless data compression tool in C++ using Huffman coding, achieving 60% file size reduction - Implemented priority-queue based binary tree construction for highly optimal and efficient character encoding - Developed an object oriented compression engine supporting frequency mapping, encoding, and binary output - Engineered bit-level file I/O using binary streams, consistently reducing storage overhead by 47% on average.		
RELEVANT COURSEWORK			
Data Structures and Algorithms	Probability, Statistics and Stochastic Processes	Operating Systems	Calculus
Database Management Systems	Mathematics for Machine Learning	Linear Algebra	Econometrics
SKILLS			
Languages	C, C++, JavaScript, Python, SQL ⁷	Tools	PERN Stack, Claude Code, MCP ⁸ , GCS ⁹ , K8s, LangChain, Docker, Redis, Supabase, Git, Linux
CO-CURRICULAR ACTIVITIES			
Open-Source App	Developed and deployed an open-source, cross-platform fitness tracking app with an active user base of 50+		
NCA – Fine Arts	Selected as 1 of 35 students from 250+ applicants for the National Cultural Academy Fine Arts cohort at IITM.		
Volunteer Educator	Mentored high school students in Physics and Mathematics through a rural education outreach program in Kerala		
NCC – Air Wing	Earned the NCC¹⁰ 'A' Certificate in 1 (Kerala) Air Squadron with 90%+ attendance over 2+ years of service & camps		

*-Ongoing; 1-Customer Relationship Management; 2-Know Your Customer; 3-Initial Public Offering; 4-Adelson Velsky Landis; 5-Time To Live; 6-JSON Web Token; 7-Structured Query Language; 8-Model Context Protocol; 9-Google Cloud Storage; 10-National Cadet Corps