

VINAYSHANKAR V

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PROFESSIONAL SUMMARY

Enthusiastic Computer Science student with expertise in **C**, **C++**, and **Python**. Hands-on experience in IoT and ML applications. Committed to continuous learning and delivering innovative solutions for growth.

EDUCATIONS

Sir M Visvesvaraya Institute of Technology B.E.	Jan 2022 - Present CGPA : 8.3/10
Alva's PU College Pre-University (PCMB)	Jan 2020 - Dec 2022 CGPA : 93.83%
Sheshadripuram High School SSLC	Jan 2019 - Dec 2020 CGPA : 96.48%

WORK EXPERIENCES

Freelance Web Developer Freelance Areka Karmik PVT LTD	Jan 2025 - Apr 2025
Developed and deployed a static product website with AI-generated content , reducing manual content effort by ~ 40% and accelerating content updates by 30% ; implemented CI/CD via GitHub and deployed on Google Cloud Run . <i>Technologies / Skills Used : Google Cloud Run, CI/CD, GitHub</i>	

PROJECTS

Real Time Data Pipeline	Jun 2025 - Jan 2026
Designed a real-time data pipeline processing 10K events/sec using Kafka and Redis. Built a live dashboard with sub-second updates via WebSockets, implemented fault tolerance for 99.5% reliability, and containerized for easy deployment. <i>Technologies / Tools Used : Python, Flask, Flask-SocketIO, Apache Kafka, Docker</i>	
Multi-threaded Proxy Server	Dec 2025 - Jan 2025
Developed a multi-threaded HTTP proxy handling 500+ concurrent connections with 30% lower latency via connection pooling. Implemented configurable filtering , HTTPS tunneling , and Docker deployment for production readiness. <i>Technologies / Tools Used : C++, Multithreading, Synchronization, Caching, POSIX Threads</i>	
Simple Heap Allocator	Jun 2024 - Oct 2025
Designed and implemented a custom heap allocator using binning (doubly-linked free lists), coalescing, and best-fit splitting . Identified and proposed enhancements such as error checking (heap corruption, double free), improved binning strategies, and minimizing metadata overhead . <i>Technologies / Tools Used : C, Linux Memory Model, Linked List</i>	

SKILLS

Programming Languages :	C, C++, Python
Frameworks & Libraries :	Flask, Django
Tools & Platforms :	Git, VS Code, n8n, Docker, Kubernetes, GitHub
Databases :	SQL
Soft Skills :	Problem Solving, Adaptability, Critical Thinking, Creativity
Languages :	English