

Ashvin K S

COMPUTER SCIENCE UNDERGRADUATE | AI SYSTEMS & WEB DEVELOPER

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EDUCATION

Vellore Institute of Technology, Chennai B.Tech — Computer Science & Engineering Current CGPA: 9.26 / 10.00	Aug 2024 – May 2028
Srimathi Sundaravalli Memorial School, Alapakkam, Chennai CBSE Class XII — 96.4% (Computer Science: 100/100)	2024
Srimathi Sundaravalli Memorial School, Alapakkam, Chennai CBSE Class X — 96.6% (Mathematics: 100/100)	2022

TECHNICAL SKILLS

Languages	TypeScript, Python, Rust, JavaScript, Java, SQL, C, Shell/Bash
Frontend	React, Next.js, Vite, Tailwind CSS, Framer Motion
Desktop	Tauri, Rust IPC
Backend	Node.js, FastAPI, Flask, MySQL, MongoDB
AI / ML	PyTorch, NVIDIA NIM APIs, HuggingFace, CUDA Python

PROJECTS

Atheletia — Desktop AI Workspace – Local-first desktop productivity hub in Tauri + React + Rust with AI chat, notes vault with local retrieval (RAG), activity tracking, calendar, and music — all data stays on-device via Rust IPC + SQLite. – Rust backend handles file I/O, SQLite persistence, and multi-provider AI inference orchestration.	TypeScript · Tauri · NVIDIA NIM ↗ GitHub
DuckGraph — Code Dependency Graph Visualizer – VS Code extension that parses files with tree-sitter into a SQLite-backed dependency graph, exposed via an MCP server so AI coding agents can query symbols and connections instead of grepping files. – Concurrent file-parsing engine that indexes cross-file symbol relationships and resolves graph queries via an Express MCP server — designed as a distributed graph system with async worker processes.	TypeScript · tree-sitter · SQLite ↗ GitHub
Amorvin Chess AI — Deep RL + MCTS – AlphaZero-style CNN (12 residual blocks, dual policy/value head) trained on Lichess data via supervised learning, then fine-tuned with self-play RL using MCTS with UCB1 and Dirichlet noise. – Data pipeline converts raw PGN game data into structured board-state tensors for training.	Python · PyTorch ↗ GitHub

CERTIFICATIONS

Full Stack Open University of Helsinki · 2026	Machine Learning Specialization DeepLearning.AI · 2025
Building RAG Agents with LLMs NVIDIA Deep Learning Institute · 2025	Fundamentals of CUDA Python NVIDIA Deep Learning Institute · 2025
Google Cloud Learning Paths Google Cloud · 2026	

ACTIVITIES & LEADERSHIP

GirlScript Summer of Code (GSSoC 2026) — Open Source Contributor 28 merged PRs across 14 open-source repositories — config standards, CI workflows, Docker environments, and contributor tooling.	2026
Full-Stack Developer — Microsoft Innovations Club VIT Chennai · Contributing to club web projects, internal tools, APIs, and practical deployment workflows.	2024 – Present
Technical Volunteer — CodeChef VITC Chapter Supporting algorithmic practice, competitive programming sessions, and campus technical events.	2024 – Present
Outreach — Android Club VITC Reached out to companies and industry contacts to coordinate speakers, sponsorships, and event partnerships for club workshops and hackathons.	Oct 2025 – Apr 2026