

Aadithya Senthil Kumaran

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EDUCATION

SRM Institute of Science and Technology

B.Tech in Computer Science and Engineering

Expected Graduation: May 2027

Current CGPA: 9.64/10

EXPERIENCE

Ignyt Labs

May 2025 – July 2025

Full-Stack Developer

Full-time

- Architected **Clarity Board**, a real-time collaborative canvas with contextual AI support using **Next.js**, **Convex**, and **React Flow**; implemented conflict-free multi-user state sync and persistent session recovery, delivering a production-ready tool.
- Led end-to-end development of **ResumeAI**, an AI-powered resume builder using **Next.js** and **LLM integration**, enabling context-aware content generation tailored to job descriptions and reducing resume creation time significantly.

Runverve (IIT Incubated Startup)

December 2024 – March 2025

Backend Software Engineering Intern

Full-time & Part-time

- Architected and deployed a secure **authentication module** with **OAuth 2.0**, **JWT**, and bcrypt password hashing to **AWS EC2**, reducing auth response time by **40%** and achieving **99.9%** uptime across environments.
- Integrated **Strava** and 3 other third-party APIs with token-based secure data sync, enabling real-time fitness data ingestion.

OPEN SOURCE

Palisadoes Foundation

December 2025 – February 2026

Open Source Contributor | Talawa

- Contributed **70+ merged pull requests** implementing **rootless Docker** support for production and devcontainer environments, multiple refactors, and expanded **unit and integration test coverage** across critical modules.
- Introduced **Redis caching and cache warming** strategies, reducing redundant database calls and improving API response times for frequently accessed endpoints.

PROJECTS

Deploy Grid | *Next.js, Bun, TypeScript, Neon Postgres, Upstash Redis, Cloudflare R2* | <https://deploy-grid.aadithya.dev/>

- Built a full-stack deployment platform for static/frontend apps where users can connect repositories, trigger builds, and monitor live deployment status and logs from a **Next.js** dashboard.
- Designed a queue-backed control plane using **Bun/TypeScript**, **Postgres**, and **Redis** to manage project metadata, deployment history, job dispatch, and encrypted environment variables.
- Implemented a resilient worker that clones repos in isolated workspaces, auto-detects package managers and build outputs, retries transient failures, recovers stale jobs, and uploads artifacts to **Cloudflare R2**.

Chatterly | *React, Next.js, Express, Socket.io, TypeScript, PostgreSQL, Turborepo* | <https://chatterly.aadithya.dev>

- Developed an embeddable AI chat widget with a real-time analytics dashboard using **React**, **Next.js**, and **Socket.io**.
- Engineered a multi-user system with a **Bun/Express backend**, integrating **Gemini API** for AI responses and **Prisma/PostgreSQL** for data persistence.

ACHIEVEMENTS & CERTIFICATIONS

- Won 3 hackathons at SRMIST: **Semicolon 10.0** (Nov 2024), **Producting 101** (Mar 2025), and **Code Craft Chase** (Feb 2026).
- Certifications: **MongoDB Associate Developer**, **AWS Cloud Practitioner**, and **Red Hat Certified Specialist in Containers**.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Go, SQL

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, FastAPI, Socket.io, Prisma, Tailwind CSS

Databases & Messaging: PostgreSQL, MongoDB, Redis, AWS SQS

DevOps & Cloud: Docker, Linux, Git, AWS (EC2, S3, Lambda), CI/CD, REST APIs, OAuth 2.0, LLM Integration