

Krithik Srinivas

Mobile: +91 73973 24517 **Email:** krithikfordev@gmail.com

LinkedIn: <https://linkedin.com/in/krithik-srinivas>

GitHub: github.com/Krithik-sri **Portfolio:** portfolio-krithik.vercel.app

PROFILE

Full-stack Software Engineer with experience building production backend services, modern web applications across startups and enterprise teams. Experienced with TypeScript, Go, Python, NestJS, FastAPI, React, PostgreSQL, and cloud-native tooling. Interested in backend infrastructure, distributed systems, and developer platforms.

SKILLS

Programming Languages	: TypeScript / JavaScript, Python, Go, SQL
Frontend	: React, Next.js, Vite, Tailwind CSS
Backend Frameworks	: NestJS, FastAPI, Node.js, Express, Plasmio
Webservices	: REST, gRPC, WebSockets, Protocol Buffers
Databases	: PostgreSQL, MongoDB, MySQL, Redis, pgvector
Build & Deployment Tools	: Docker, LocalStack, GitHub Actions, Neon
Cloud	: AWS, GCP, Azure AD (MSAL)
Version Control	: Git, GitHub
Development Methodologies	: SDLC Agile, Test driven approach.

CAREER EXPERIENCE

Software Engineer, Engrew Labs, Remote

(Apr 2026 – Aug 2026)

AI Browser Automation

- Architected cross-site form autofill for a Manifest V3 Chrome extension, keeping the semantic identity profile entirely on-device so no profile data leaves the browser.
- Shipped as a 44-file, 2.9K-line change with a seam that let an AI classifier drop in later without re-architecting.
- Built the AI field-classification layer on Ollama Cloud, split client/service/types across the side panel and service worker, with responses cached by versioned form signature.
- Deduplicated in-flight requests and added abort timeouts with typed error codes the UI reads.
- Took component library fill support from zero to four widget families (MUI, react-select, Headless UI, Radix) by reverse-engineering each library's real DOM behaviour from live pages
- • Extended fills to multi-step wizards with a pure step rule surviving in-page pushState.
- Extracted fill, submit, step-advance and tab-state decisions into pure DOM-free modules covered by roughly 700 lines of unit tests, establishing the pattern the team now follows for automation logic.
- Delivered 9 of the project's 53 merged pull requests at a 100% merge rate and closed 7 assigned issues on a five-person team in a sprint.

Software Engineer Intern, C1X, Chennai, India

(Dec 2025 – Mar 2026)

Enterprise Solutions

- Built an end-to-end Microsoft 365 ingestion pipeline feeding enterprise data into internal knowledge systems.
- Developed the text canonicalization stage that cleaned, normalized and structured unstructured enterprise documents ahead of embedding generation, improving downstream retrieval quality.
- Prototyped reusable authentication infrastructure for NestJS services on Azure AD and MSAL, providing pre-authenticated service clients with centralized token acquisition and refresh.

Full-Stack Developer Intern, Authentia (Phosphene.ai), Chennai, India

(Mar 2025 – Dec 2025)

AI R&D

- Designed and implemented NestJS service modules on a modular, dependency-injected architecture, including a support ticket system and a role-based ML model handler.
- Built a self-healing background job queue with automatic retry and exponential backoff, cutting manual re-runs of failed tasks to zero.
- Built backend infrastructure to orchestrate ML workload deployment across environments using Docker and LocalStack, giving the team AWS-compatible execution without a cloud dependency.

Full-Stack Developer Intern, Adrig AI Technologies, Chennai, India

(Dec 2024 – Mar 2025)

Southern Railways of India

- Refactored a large-scale production codebase, decomposing 1000+ line monolithic files into modular, reusable components and eliminating duplicated logic.
- Owned end-to-end feature development for Southern Railways of India, translating direct client requirements into production-ready full-stack solutions on roughly one-week turnaround cycles.

PROJECTS

raft-kv — Distributed Key-Value Store

(Go, gRPC, Raft)

github.com/Krithik-sri/raft-kv

- Implemented Raft consensus directly from the paper with no external consensus library, covering leader election, log replication, snapshots with log compaction, pre-vote, CheckQuorum, dynamic membership and lease-based linearizable reads across a five-node gRPC cluster.
- Benchmarked 357 writes/s at 20 ms p50, 13K linearizable reads/s at 528 μ s p50 and 21K stale reads/s, with leader failover in roughly 225 ms.

Research Radar — Research Knowledge Base with RAG

(TypeScript, PostgreSQL/pgvector, Next.js)

github.com/Krithik-sri/research-radar

- Built a resumable arXiv ingestion pipeline that crawls, classifies, summarizes and embeds each paper before linking it into a knowledge graph.
- Built with Neon Postgres and pgvector, Drizzle migrations, behind a provider swappable LLM and embedding layer spanning Groq, OpenRouter, Gemini and Jina.
- Ships streaming multi-turn RAG chat, a dependency-free canvas knowledge-graph view, Slack and Discord bots, and scheduled digests on Inngest crons.

RLForge — Reinforcement Learning Platform

(FastAPI, Python, WebSockets, Docker)

github.com/Krithik-sri/rl-forge-v1

- Built a bidirectional WebSocket service that steps Gymnasium environments server-side and streams rendered frames to the browser in real time across Box, MultiDiscrete and Dict action spaces.
- Shipped a multi-stage Docker build with headless EGL rendering so 3D environments render in-browser without a display server attached.

EDUCATION

Bachelor of Technology in Artificial Intelligence and Data Science

2022 – 2026 | St. Joseph's Institute of Technology, Chennai, India | CGPA: 7.7/10

ACCOMPLISHMENTS

Awards: Finalist, Smart India Hackathon 2024 (Software Edition): built a pitch practice platform on Next.js, Prisma, MongoDB and Clerk, pivoting from an LMS concept mid-event on judge feedback. Essentially rewriting the entire application.

Certification: Google Cloud Computing Foundations (All 10 courses with badges), Google Cybersecurity (Linux, SQL, Network Security, Threats, Vulnerabilities), DeepLearning.AI (TensorFlow, CNNs, PyTorch for GANs and image segmentation), NVIDIA (AI Infrastructure and Operations)

Language Certifications: Cambridge Business English, Overall – 176 (B2), Listening & Reading – 180+ (C1)

Soft skills: Ownership, Team Work, Time Management.