

KARTHIK S SALIAN

✉ karthikssalian5@gmail.com

🌐 [linkedin.com/in/karthik-s-salian/](https://www.linkedin.com/in/karthik-s-salian/)

🐙 github.com/Karthik-S-Salian

🌐 [Portfolio](#)

EDUCATION

B.Tech in Computer Science and Engineering at NMAMIT 2022 - 2026

CGPA: 9.61 — Relevant Coursework: Data Structures, Operating Systems, Object-Oriented Programming, Database Management Systems, Computer Networks, Software Engineering

PoornaPrajna PU College Admar

2020 - 2022

Completed 2nd PUC with 97.96%

SKILLS

Programming Languages

C++, Python, Java, TypeScript/JavaScript(ES6), Rust

Frameworks

React, Next.js, SvelteKit, Node.js, FastAPI, Tensorflow, Threejs, WebGL

Tools

Git, Github, Linux/Unix, NixOS, Vercel, Docker, Kafka, Loki, Sanity

EXPERIENCE

HPE CPP Intern

Jan 2025 – Present

Hewlett Packard Enterprise, Remote

Nitte, India [Remote]

Exploring observability solutions and OpenSearch alternatives including *Loki*, *VictoriaLogs* as part of the HPCM logging pipeline. Evaluating integration strategies using *Fluent Bit*, *Kafka*, *Logstash*, and *OpenTelemetry* for traceability and monitoring.

Incridea Tech Team – Web Developer

Dec 2024 – Feb 2025

Incridea, NMAM Institute of Technology

Nitte, India [Hybrid]

Built and managed a photography management platform for Incridea using *Next.js*, *tRPC*, *Prisma*, *Tailwind CSS*, and *PostgreSQL*. Designed for scalability, the platform handled over 5000 users and optimized image organization and delivery.

Software Development Engineer-Trainee

Jun 2024 – Jul 2024

Inspirante Technology Pvt. Ltd., Remote

Nitte, India [Remote]

Led the development of a dynamic multilingual website for Krishnaveni Ashrayadhama, with a focus on UI/UX improvements. The project leveraged *web technologies* to boost accessibility and streamline content management.

PROJECTS

Association of Computer Engineers Website - (*Astro.js*, *TypeScript*, *Tailwind*, *Drizzle*, *Turso*) - ([Source code](#))

Developed a paperless event management system, streamlining registrations and real-time event updates. Enhanced accessibility, reducing manual efforts and increasing efficiency. ([live link](#))

Online Code execution system - (*Rust*, *Poem-openapi*, *Nats*, *Docker*, *isolate*) - ([Source code](#))

Building a secure code execution engine in Rust using the Linux-based isolate sandbox to safely run untrusted code with fine-grained resource limits. It supports multi-language execution and output validation.

Face search system - (*Rust*, *Poem-openapi*, *Pytorch*, *Onnx*, *Qdrant*)

Face search system using Rust with ONNX Runtime for inference, Qdrant for vector similarity search. Supports real-time face detection, embedding, and querying of known and unknown faces with optimized performance.

LEADERSHIP

Developer – Finite Loop Club

Managed multiple internal projects and organized peer learning sessions

Technical Committee Member – HackFest

Provided technical support and troubleshooting for 100+ participants during the national-level hackathon.