



SOUMYAKANTA PATTANAIAK

Weimar, Germany || samcse95@gmail.com || +49 15510 439353 || <https://linkedin.com/in/samcse95> || <https://github.com/sam1code>

Full-Stack Developer & Software Architect with expertise in building scalable, distributed systems and intelligent applications. Focusing in Machine Learning, NLP, and AI-driven automation. Currently pursuing a Master's in Computer Science for Digital Media, focusing on AI, distributed computing, and advanced system architectures.

EDUCATION

MSc. In Computer Science for Digital Media

Weimar, Germany

April 2025 - March 2027(Expected)

- Learning deep learning, computer vision, and AI/ML applications for digital media.
- Gaining expertise in 3D visualization, interactive media, and advanced digital systems.

Bachelor of Technology In Computer Science and Engineering

Berhampur, India

June 2019 - May 2023

Strong foundation in Computer Science, software development, DSA, OOPS, OS, Compiler Design, Big Data, AI/ML, CV & OOAD.

PROFESSIONAL EXPERIENCE

Full Stack Engineer | QV Labs | Bangalore, India

October, 2024 - March 2025

- Designed and deployed an AI-driven content & pitch evaluation system for PitchMatter from architecture to beta in 5 months.
- Led a team of 4 members and oversaw system architecture and technology integration, achieving 100% sprint delivery rate.

Software Engineer Intern | DPS by UnternehmerTUM | Munich, Germany

February 2024 - May 2024

- Co-developed an AI-assisted collaborative Firefox plugin for the City of Munich.
- Conducted user research to integrate NLP features for improved accessibility and information retrieval.

Associate Software Engineer | Streak AI | Bengaluru, India

March 2023 - November 2023

- Optimized real-time AI-powered task scheduling with CRON, improving accuracy by 30%.
- Migrated Python-based AI pipelines to Go for enhanced speed and reduced costs (~20%).

Full Stack Developer Intern | CloudRocks Technologies | Bengaluru, India

May 2022 - February 2023

- Built an AI intelligent help bot using LangChain & Hugging Face for NLQ resolution, reducing support response time by 35%.

SKILLS

Languages: TypeScript, Go, Python, Java

Frameworks: React, React Native, Express, Node.js, FastAPI, Flask, Go Fiber, Gin

APIs: REST, GraphQL, gRPC, WebSockets

Databases & ORMS: MySQL, PostgreSQL, MongoDB, Redis, Neo4j, Prisma, Sequelize

Cloud & DevOps: AWS, GCP, Docker, Kubernetes, Git, Linux, CI/CD, EventBridge, CRON Jobs

Architecture & Systems: Microservices, Distributed Systems, Event-Driven (Kafka), Scalability, High Availability, Caching, Fault Tolerance, System Design, Data Security

Core Engineering: OOD, DSA, Agile, Technical Roadmapping, Trade-off Analysis

PROJECTS

Fleet management Dashboard

Developed a Fleet Management Dashboard for AWS Spot Instances, enabling fleet creation, automated health checks, and network monitoring. Optimized instance lifecycle management and performance using AWS services, improving cost-efficiency and reliability.

Architecture Diagram for Decentralized Lifestyle Platform

Architected a microservices platform with 10+ services using gRPC, Kafka, and service mesh (Istio/Linkerd) to ensure scalability, security, and performance. Implemented centralized authentication (OAuth2, JWT, mTLS) across 8+ microservices, improving security and access control.

ACHIEVEMENTS

- Awarded formal recognition from the **City of Munich (Landeshauptstadt münchen)** for instrumental contributions to its digital transformation initiatives, culminating in a thank you letter from the **Chief Digital Officer (CDO)**.
- **1st Runner-Up** in **National Web Development Contest (Computer Society of India)**, Jan 2021.

LANGUAGES

ODIA(NATIVE), HINDI(C1), ENGLISH (C1), GERMAN(A2)