

# SARATCHANDRA PATNAIK

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📍 Tempe, AZ

*Immediately available to work*

Software Engineer with 1+ years of production experience in Streaming Infrastructure, Go, and AWS. Specialized in building high-availability backend systems and scalable cloud architectures.

## PROFESSIONAL EXPERIENCE

### Amagi Media Labs

Bengaluru, India

Software Engineer [AWS EKS, ArgoCD, FastAPI]

Aug 2022 – Nov 2023

- Deployed end-to-end software development lifecycles for cloud-native microservices on **AWS EKS**, coordinating across cross-functional teams to ensure seamless integration and **99.9% release stability**.
- Engineered RESTful APIs with **FastAPI** and Python, implemented asynchronous request handling, and reduced data-processing latency, improving efficiency of internal tools
- Engineered **ML Infrastructure** and **Data Processing Pipelines** that ingested server logs into **LLMs**, automating root cause analysis and slashing manual debugging time for configuration and certificate issues by **60%**.
- Operated and scaled a Kubernetes-based microservices platform hosting **15+ services**, increasing deployment frequency by **30%** through robust containerization and reliability practices.
- Owned **GitOps CI/CD pipelines** with ArgoCD and standardized rollout procedures, which reduced deployment risk and improved release stability.
- Automated customer onboarding and integrations using **Terraform** and Python workflows, cutting manual setup efforts by **90%** and reducing **CDN** delivery failures by **95%**.

### Blueplanet Solutions Inc.

India

Software Intern [MySQL, Web Development]

Apr 2021 – June 2021

- Optimized end-to-end application performance for 'Campus Club' by refactoring MySQL stored procedures and PHP/JS interfaces to reduce search latency by **60%** for 1,000+ profiles, while diagnosing server logs to resolve memory leaks and increase release stability by **30%**.

## PROJECTS

### My Personal Agent – Multimodal RAG System [Python, LLM, ChromaDB, Cursor]

Dec 2025

- Architected a production-grade **RAG engine** using Cursor, Python and ChromaDB, utilizing Clean Architecture and Strategy patterns to decouple LLM providers for enhanced modularity and testability.
- Engineered a Multimodal AI system integrating **GPT-4 Vision** for real-time visual diagnostics and an ATS Resume Optimizer using vector embeddings to automate content scoring and keyword alignment.

### High-Performance Multi-threaded UDP Server [C++, Socket Programming, Mutex, Cursor]

Nov 2025

- Engineered a concurrent **UDP server** capable of handling multiple client streams simultaneously, implementing **thread pooling** and **mutex locking** to prevent race conditions and ensure data integrity.
- Optimized packet throughput for high-frequency data ingestion, simulating the low-latency transmission patterns required for real-time **telematics** and distributed system logging.

## TECHNICAL SKILLS

**AI & Machine Learning:** LLMs (GPT-4, Claude), RAG, LangChain, Computer Vision, PyTorch

**AI & Dev Tools:** Cursor (AI Editor), GitHub Copilot, GitHub Actions, Docker, GitOps

**Languages and Libraries:** Go, TypeScript, Python, JavaScript, C++, Java, R, PHP

**Backend & Web Frameworks:** FastAPI, Node.js, React, REST APIs, Microservices

**Databases:** PostgreSQL, Redis, ChromaDB (Vector DB)

**Cloud & DevOps:** AWS (Lambda, S3, EKS), Kubernetes, Azure (Fundamental)

## EDUCATION

### Arizona State University

Tempe, AZ

Master of Science in Computer Science (CGPA: 3.80/4)

Graduated Dec 2025

### Christ University School of Engineering

Bengaluru, India

Bachelor of Technology in Computer Science (CGPA: 9.11/10)

Graduated May 2022