


Devansh Parapalli

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WORK EXPERIENCE

Systems Engineer

Tata Consultancy Services Limited Jul 2025 — Present
Hyderabad, Telangana, India

- Part of the Generative AI CoE in the AI.Cloud Business Group, working on Large-scale, Cloud-based Agentic AI Use-cases for clients.
- Contributed to the development of data ingestion and RAG pipeline for a client, supporting processing of 1000+ diverse invoice types, including scanned and handwritten documents.
- Architected a platform migration for a client, helping transition enterprise systems from SAP Cloud Platform to Azure Integration Services (AIS) and implemented Generative AI solutions for migration processes and enhanced platform capabilities.

GenAI & Backend Development Intern

PolymathAI Jun 2024 — August 2024
Nagpur, Maharashtra, India

- Implemented a novel Generative AI Pipeline capable of utilizing videos, reducing the time to process videos by 95%.

Software Development Engineer Intern

Gameathon Feb 2023 — April 2023
Remote

- Designed and developed a full e-commerce platform for Gameathon, with a user retention rate of 93% for the first year.

EDUCATION

Government College of Engineering, Nagpur

Bachelor's of Technology, Computer Science and Engineering Nagpur, Maharashtra, India
Dec 2021 — Jul 2025

- CGPA: 8.28/10.0 | Notable Project: Development Containers and CI/CD Pipelines for many notable languages and frameworks.

PROJECTS

AIKO: AI-powered Knowledge Organizer (aiko.parapalli.dev)

Jun 2024 — Present

- Innovated a full knowledge management system that processes and organizes information from various sources and modalities.
- Authored a custom NLP pipeline, reducing token usage by 40% while maintaining 95% accuracy in content classification
- Conceived an innovative “single-file” plugin architecture with Python, enabling developers to extend functionality with 90% less code
- Added comprehensive test coverage (90%+) and CI/CD pipeline using GitHub Actions

ARA: AI Research Assistant (ara.parapalli.dev)

Jan 2024 — May 2024

- Identified inefficiencies in academic workflows and built an AI-powered solution that reduced literature review time by 60%
- Pioneered custom streaming LLM framework achieving 80% faster response times compared to standard implementations
- Optimized core functionality by re-implementing LLM fundamentals in Python, further reducing response time.

SKILLS AND AWARDS

- **Core Languages:** Python (5+ years, expert), JavaScript/TypeScript (4+ years, advanced), C/C++ (3+ years, intermediate), Go, Java
- **Web Development:** Svelte (4+ years), React, Next.js, Node.js, Express.js, FastAPI (4+ years), Django, TailwindCSS
- **Database Technologies:** PostgreSQL, MongoDB, SQLite, specialized in high-performance database design and optimization.
- **AI/ML Engineering:** Custom NLP pipelines, LLM ModelOps, Vector Databases, Embedding models, LangChain, Pinecone.
- **DevOps & Infrastructure:** Docker & Docker-Compose (3+ years), Amazon Web Services, Google Cloud Platform (3+ years, certified), Kubernetes, CI/CD Pipelines, Terraform, Infrastructure-as-Code, Cloud-native applications, Linux Administration.

PUBLICATIONS

Artificial Intelligence based Knowledge Organizer for diverse data formats

Vol. 48, Special Issue No. 2, Page 261-265 IJTE - ISTE India
March 2025

CERTIFICATIONS

Cloud Digital Leader

Credential ID: 247dd2671d194d66b3466a1702709631 Sep 2025 — Sep 2028
Google Cloud Platform

Generative AI Leader

Credential ID: c6d67c50865d41dab9a32452654340ee Sep 2025 — Sep 2028
Google Cloud Platform