Devansh Parapalli

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WORK EXPERIENCE

Systems Engineer   Present
Tata Consultancy Services Limited   *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.
- 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
- Implemented a novel Generative AI Pipeline capable of utilizing videos, reducing the time to process videos by 95%.

Software Development Engineer Intern
Gameathon
- 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   Nagpur, Maharashtra, India
Bachelor's of Technology, Computer Science and Engineering
- 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)
- 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 easily.
- Added comprehensive test coverage (90%+) and CI/CD pipeline using GitHub Actions

ARA: AI Research Assistant (ara.parapalli.dev)
- Identified inefficiencies in academic workflows and built an Agentic AI 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   IJTE - ISTE India
Vol. 48, Special Issue No. 2, Page 261-265   March 2025

CERTIFICATIONS

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

Generative AI Leader   Sep 2025 — Sep 2028
Credential ID: c6d67c50865d41dab9a32452654340ee   Google Cloud Platform