

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 Team in the AI.Cloud Business Group.
- Contributed to the development of data ingestion and RAG pipeline for NXP Semiconductors, supporting processing of 1000+ diverse document types.
- Assisted in platform migration for Nokia, 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.

Software Development Engineer Intern

PolymathAI

Jun 2024 — August 2024

Nagpur, Maharashtra, India

- Led the development of Polymath Pods (getpods.pro), achieving 500+ active users within first month of launch.
- Created a full-stack Next.js application with TypeScript and Python backend, resulting in 99.9% uptime and <100ms response times.
- Implemented automated CI/CD pipeline that reduced deployment time from hours to minutes and eliminated release-related downtime.

Software Development Engineer Intern

Gameathon

Feb 2023 — April 2023

Remote

- Integrated Razorpay and Stripe payment gateways into a multi-faceted system, processing over ₹1,00,000 in transactions.
- Engineered a flexible e-commerce system supporting dynamic pricing, discount codes, and cart management.

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 (built 10+ production apps), 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 & containerization (3 years), CI/CD Pipelines, AWS(EC2, S3, Lambda), Serverless Architecture

PUBLICATIONS

Artificial Intelligence based Knowledge Organizer for diverse data formats

Vol. 48, Special Issue No. 2, Page 261-265

IJTE - ISTE India

March 2025