Devansh **Parapalli**

Computer Science Student · Web and Systems Developer

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Education

Government College of Engineering, Nagpur   Nagpur, Maharashtra

B.Tech. in Computer Science & Engineering | CGPA: 8.28 / 10   Jun 2021 -- Present

G. H. Raisoni Vidyanekatan   Nagpur

12th Standard | CBSE | Percentage: 85 / 100   Apr 2019 - Mar 2021

Experience

Software Engineering Intern   Nagpur, Maharashtra, India

PolymathAI   Jun 2024 -- Aug 2024

- Creating AI-powered web application, increasing content organization efficiency by 40% through integration of NLP, LLMs, and machine learning.
- Leading the development of full-stack applications and web extensions using MERN stack and Next.js
- Implementing AI models to enhance product functionality and user experience
- Developed a robust content scraping framework, cabable of ingesting multiple data formats.
- Collaborating with the founding team on feature development spanning web and AI components

Software Engineering Intern   Remote

Gameathon   Mar 2023 -- Apr 2023

- Integrated Razorpay and Stripe payment gateways, reducing checkout friction by 80% and increasing user conversion by 35%
- Implemented e-commerce functionalities including discount codes and shopping carts, increasing user retention by 20%
- Integrated Firebase for authentication and executed a game request feature

Projects

AIKO: AI-powered Knowledge Organizer   Govt. College of Engg., Nagpur

College Mega-Project   June 2024 -- Ongoing

- Developed an AI-powered knowledge organizer to streamline information retrieval and organization, reducing time spent on information retrieval by 75%.
- Engineered a custom NLP pipeline for content embedding, supporting major formats including text, images, and audio. Reengineered the LLM connection to reduce the response time by 85%.
- Implemented a serverless data storage platform using Amazon S3, PostgreSQL and Supabase.
- Conducted Unit, End-to-End, Verification and Validation, Acceptance and User Testing, resulting in a 90% satisfaction rate and a 80% increase in user productivity.
- Created and maintained documentation for the project, ensuring seamless onboarding for new team members.
- Link: https://aiko.parapalli.dev

ARA: AI-powered Research Assistant   Govt. College of Engg., Nagpur

College Mini-Project   Jan 2024 -- May 2024

- Led the development of an AI-powered application to streamline academic research, reducing research time by 30% for a test group of 50 students.
- Engineered custom LLM flow for content summarization and text generation, achieving 80% faster mean response times compared to industry benchmarks.
- Designed and implemented a scalable data storage system using PostgreSQL and Supabase, supporting real-time synchronization for collaborative research.
- Optimized core functionality by re-implementing LangChain in pure Python, further reducing response time by 50%.
- Link: https://ara.parapalli.dev

Miscellaneous Projects

- AutomaticResults: Developed an automated web scraping tool using Python to extract student results from university portal, parse PDF admit cards, and generate rankings for 100+ students with 100% accuracy.
- Adhyaaya'23: Fast, Modern Website created for Adhyaaya'23, a college tech fest.
  Link: https://adhyaaya23.parapalli.dev
- Adhyaaya'22: Innovative User Experience, written in Svelte
  Link: https://adhyaaya22.parapalli.dev
- Synergy'22: Departmental Tech-Fest, written in Svelte
  Link: https://synergy22.parapalli.dev

Skills

Languages	Python, C/C++, JavaScript/TypeScript, Rust, SQL, Java, Shell Scripting
Web Technologies	React, Svelte, Next.js, Node.js, Django, FastAPI, HTML/CSS, RESTful APIs
AI & ML	NLP, Machine Learning, Deep Learning, LLMs, PyTorch, TensorFlow
Cloud & DevOps	Docker, AWS, GCP, Firebase, Supabase, CI/CD, Kubernetes, Terraform
Other	Git, Linux, WebGL, Three.js, IoT (Arduino, ESP32, Raspberry Pi), Robotics
Soft Skills	Leadership, Team Collaboration, Problem-solving, Time Management, Communication

Extracurricular Activities

Vice President — Govt. College of Engg., Nagpur
COMPUTER SCIENCE STUDENT'S ASSOCIATION (COMSA) — Sep 2023 -- August 2024

Co-Head Student Coordinator & Innovation Coordinator — Govt. College of Engg., Nagpur
INSTITUTION'S INNOVATION COUNCIL (IIC 5.0) — Sep 2022 -- Aug 2023

Technical Head — Govt. College of Engg., Nagpur
STUDENT WELFARE COMMITTEE (SWC)/GYMKHANA — Sep 2022 -- Aug 2023

Technical Co-Lead — Govt. College of Engg., Nagpur
GOOGLE DEVELOPER STUDENT CLUB — Aug 2022 -- Jul 2023

Awards

Technical Competitions

Smart India Hackathon — India
FINALIST — 2023

Community Contributions

GitHub Archive Program — Global
CONTRIBUTOR — 2020

Modi-Script Open Source Project — GitHub
CONTRIBUTOR — 2020

Certifications

Fundamentals of Accelerated Computing with CUDA C/C — NVIDIA
CERTIFICATE ID: 4FSGNU7QTPQOYVYAZHLIUW — Jul 2024