Devansh Shrinivasan Parapalli

B.Tech. - Computer Science & Engineering

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Brief Summary

As a Computer Science student at Government College of Engineering Nagpur, I am skilled in web and systems development with proficiency in Python, C/C++, JavaScript/TypeScript, and Rust. My experience spans both front-end and back-end technologies, cloud platforms, and serverless environments. I've demonstrated my innovative problem-solving abilities as a Smart India Hackathon 2023 finalist and through my contributions to open-source projects.

Currently interning at PolymathAI, I'm expanding my expertise in AI and Machine Learning, with a focus on Large Language Models, natural language processing, and ethical AI development. My leadership roles in student organizations complement my technical skills, positioning me as a versatile talent in the rapidly evolving fields of computer science and artificial intelligence.

Key Expertise

Web Development, Open Source, Operating Systems, Linux, C, C++, Rust, Python, WebGL, Three.js, WebRTC, Arduino, ESP32, Artificial Intelligence, Machine Learning, Computer Vision, Deep Learning, CUDA, TypeScript, Javascript, CSS, HTML5, Containerization, Firebase, Project Management, Team Leadership, Technical Problem Solving

Education

Government College of Engineering, Nagpur *2021 - 2025* B.Tech. - Computer Science & Engineering | CGPA: 8.28 / 10

G. H. Raisoni Vidyanekatan, Nagpur *2019 - 2019* 12th | CBSE | Percentage: 85 / 100

Bharti Krishna Vidya Vihar, Nagpur *2017 - 2017* 10th | CBSE | Percentage: 85 / 100

Awards and Scholarships

- World Robotics Olympiad - Open Category - IInd Place (2017)

- Won IDE Bootcamp organized under AICTE for SIH Finalists (2024)

Internships

PolymathAI | Education *12 Jun, 2024 - Present* Software Engineer Intern

- Key Skills: Natural Language Processing, Artificial Intelligence, Vectors, NextJS, Web Extensions, Supabase, LLMs

- Working across the full MERN stack and delving deep into AI, machine learning, large language models (LLMs), and natural language processing (NLP)

- Developing responsive user interfaces, optimizing web applications, and implementing AI models

- Collaborating with the founding team, integrating AI capabilities into the user experience

Gameathon | Dotcom / Internet / E-Commerce *20 Mar, 2023 - 20 Apr, 2023*
Software Engineering Intern

- Key Skills: Backend Development, NextJS, Express, MongoDB, Stripe, Razorpay, PayTM, Payment Gateways, Frontend Development, Full-Stack Development, ReactJS, DevOps, Mailgun, Sendgrid

- Integrated payment gateways (Razorpay and Stripe) into a platform built with React, Express, MongoDB, and Node.js

- Implemented key e-commerce functionalities such as discount codes and shopping carts

- Integrated Firebase for authentication and developed a feature for game requests

Projects

ARA : AI-powered Research Assistant *01 Jan, 2024 - 01 May, 2024* Mentor: Dr. D. J. Chaudhari | Team Size: 4

- Key Skills: Natural Language Processing, Artificial Intelligence, Neural Networks, Deep Learning, Web Scraping, Test Automation, Python, RESTful APIs, Semantic Web Technologies, Oauth2, AWS, Progressive Web Application, Svelte, Node, PostgreSQL, Tensorflow

- Project Link: https://ara.parapalli.dev

- Developed a cutting-edge application to enhance research capabilities using advanced AI technologies

- Led the development of core AI functionalities and backend systems, including implementation of Large Language Models for content summarization and text generation

- Designed and built the data storage system using PostgreSQL with REST API integration

- Assisted in frontend development using Svelte and SvelteKit

Publications / Research / White Papers

ARA: Artificial Intelligence powered Research Assistant *01 Apr, 2024 - 01 Apr, 2024* Preprint | ResearchGate | Mentor: Dr. D. J. Chaudhari | No. of Authors: 5

- Key Skills: Natural Language Processing (NLP), Explainable AI, System Integration, Multimodal Learning, Research Methodology, Artificial Intelligence, Web Development, Data Privacy and Security, Orchestration (Kubernetes), Containerization (Docker), Cloud Computing, API Design and Implementation, Database Management (PostgreSQL, MongoDB), Microservices Architecture, Back-end Development (FastAPI, Python), Front-end Development (SvelteKit), Software Development Life Cycle (Waterfall model), Knowledge Sharing Platforms, Collaborative Editing Systems, User Interface Design, Machine Learning/Deep Learning, Knowledge Representation and Reasoning, Semantic Web Technologies, Text Generation, Text Summarization, Information Retrieval, Large Language Models (LLMs)

- Introduced ARA, an innovative application designed to revolutionize academic research

- Leveraged advanced AI technologies including large language models, semantic web technologies, and knowledge graphs

- Detailed ARA's methodology, microservices-based implementation, and evaluation results

- Discussed ethical considerations and future directions in AI-powered research assistance

Achievements

- Smart India Hackathon Finalist (2023)

- Regional Finalist for TCS ITWiz (2017 & 2018)

- Contributed to GitHub Archive Program 2020

Positions of Responsibility

- Co-Head Student Coordinator & Innovation Coordinator - IIC 5.0

- Vice President, Computer Science Student's Association

- Technical Team Member, IIC 4.0

- Technical Head, SWC/Gymkhana

- Technical Head, Computer Science Student's Association

- Technical Team Head, Adhyaaya 23

- Technical Team Member, Adhyaaya 22

Seminars / Trainings / Workshops

IDE Bootcamp *29 Jan, 2024 - 02 Feb, 2024* Institute Name: AICTE Key Skills: Innovation, Design, Entrepreneurship

Extra Curricular Activities

Badminton, Football

Web Links / IMs

- WhatsApp: wa.me/+918793150182

- Github: github.com/DevParapalli

- Personal: parapalli.dev

Personal Details

- Gender: Male

- Marital Status: Single

- Current Address: 401, Akshay Heights III, Bharat Nagar, Amravati Road, Nagpur, Maharashtra, India - 440001

- Date of Birth: 07 Jul, 2003

- Phone Number: +91-8793150182

- Emails: parapallidev@gmail.com, dsparapalli@gcoen.ac.in

References

- Tanmay Dhote (Founder, PolymathAI)
  (+91-9789006076, tanmay.d@trypolymath.ai)

- Anant Pant (Proprietor, Gameathon)
  (+91-7895022064)

- Dr. D. J. Chaudhari (Project Guide, Government College of Engineering, Nagpur)
  (+91-8956022197, djchaudhari@gcoen.ac.in)

- Udaya Balakrishna (Professor, Our Own High School, Al Warqa)
  (+971-552675329)