Sparsh Agarwal

Chandigarh, India

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in Sparsh Agarwal

Education

UIET, Panjab University

Bachelor of Engineering (Computer Science) 2024–2028

Relevant Coursework: Data Structures and Algorithms, DBMS, Operating Systems, Computer Networks, Machine Learning (in progress)

Projects

Resume Builder Web Application *MERN Stack*

GitHub: github.com/sparsh-hub/Resume-Builder *Live Demo:* resume-builder-fresh.vercel.app

○ Built a full-stack resume builder application that allows users to create, edit, and preview structured resumes through an intuitive and responsive UI.

○ Implemented RESTful APIs using Node.js and Express for resume data handling and integrated MongoDB for persistent storage and CRUD operations.

○ Developed modular React components and applied Tailwind CSS to ensure consistency, responsiveness, and ease of scaling for additional templates or features.

○ Deployed the application to a cloud hosting platform, configured environment variables, and ensured smooth production performance and accessibility.

Tools & Technologies: React, Node.js, Express.js, MongoDB, Tailwind CSS, JavaScript, REST APIs, Git, GitHub, Deployment Platform (Vercel/Render)

Personal Project

Personal Portfolio Website 2025

○ Built a desktop-first personal portfolio using React.js and Tailwind CSS.

○ Integrated GSAP animations for smooth scroll-based transitions and interactive UI effects.

○ Implemented lazy loading using React.lazy and Suspense to improve initial load performance.

Live: Link

Tech: React.js, Tailwind CSS, GSAP

Technical Skills

Languages: C++, Python, JavaScript, SQL, PHP

Web Dev: Node.js, Express.js, React.js, MongoDB, HTML, CSS, GSAP

AWS: EC2, IAM, S3, Route53, CloudFormation, Lambda, CloudWatch, SNS, SQS

AI/Automation: n8n, LangChain, LLM Integration, Agentic Workflows, Prompt Engineering

AI/ML: NumPy, Matplotlib, Seaborn, Scikit-learn, Jupyter Notebook

Learning: FastAPI, Deep Learning, PyTorch/TensorFlow

Core CS: Data Structures and Algorithms (100+ LeetCode problems solved)

Tools: Git, VS Code, Postman

Certifications

Supervised Machine Learning: Regression and Classification– Stanford University(Coursera) LINK

Experience

DCCPL   **Chandigarh, India**

AI Automation Intern   *Jan 2025–Present*

- Designed and deployed **agentic AI workflows** using **n8n** and **LangChain**, automating end-to-end resume generation.
- Reduced manual writing effort by **70%+** by orchestrating structured LLM pipelines.
- Integrate custom **JavaScript** logic within automation nodes to parse input data and structure dynamic content.
- Orchestrate LLM interactions to generate context-aware resume bullet points.
- Optimize workflow reliability and error handling to ensure consistent output quality.

UIET, Panjab University

Member/Mentor, Debating Society (DebSoc)   *Sep 2024–Present*

- Managed the complete technical operations of the UIET PD 1.0 Tournament on Discord, ensuring smooth coordination for 250–300 participants and enabling the tournament's successful execution.
- Was appointed as the **DEPARTMENT HEAD** of Discord Team managing a team of 4 to ensure the smooth flow of the tournament for all the participants.
- Coordinated with local vendors as part of the Food & Beverage department for UIET MUN, handling procurement, logistics, and budget management.
- Mentored a cohort of 5 junior debaters through weekly training sessions.
- Taught motion analysis, framing, extensions, whip summaries, and clash generation.
- Provided personalized feedback to improve structure, delivery, and strategic depth.