

SAYAN BARMA

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PROFESSIONAL SUMMARY

Computer Science and Engineering undergraduate with practical experience in full-stack development, AI-driven automation, and cross-platform applications. Adept in Python, JavaScript, and modern frameworks like FastAPI and React. Engineered and deployed multiple end-to-end solutions with measurable results. Enthusiastic about addressing complex challenges using clean, scalable code and modular architectures.

EDUCATION

B.Tech in Computer Science and Engineering, BCET, Durgapur

Aug 2022 – May 2026

MAKAUT — CGPA: 7.4

Kendriya Vidyalaya No. 2 Delhi Cantt.

CBSE Class 12 (HSC 2022): 87% — CBSE Class 10 (SSC 2020): 93%

SKILLS

Languages: Python, Java, JavaScript, C

Web Technologies: HTML, CSS, Flask, FastAPI, Django, WebSockets, React.js

Databases: MySQL, MongoDB, PostgreSQL, SQLite

Tools: Git, GitHub, n8n, Electron, Capacitor, Vite

Libraries & Frameworks: Scikit-learn, TensorFlow, Pandas, NumPy, PyQt, Selenium, BeautifulSoup, Discord.py

Concepts: Automation, AI/LLM Integration, RBAC, Data Visualization, RSA Cryptography, Unit Testing

TECHNICAL EXPERIENCE

JobiPilot: AI-Powered Job Application Automation *Tech Stack: n8n, Python, Gemini, API Integration, Google Sheets* [GitHub]

- Architected an end-to-end job application pipeline using n8n to automate data aggregation from multiple sources, including RSS feeds and the JSearch API.
- Integrated Google's Gemini Pro model to perform AI-driven analysis of job descriptions against a personal resume, generating a match score and a tailored cover letter.
- Developed a module to automatically customize and generate a unique LaTeX resume tailored for each specific job opportunity, streamlining the application process.

Udemy Free Course Grabber *Tech Stack: React, Electron, Capacitor, Vite*

[GitHub]

- Engineered a cross-platform application for Windows (with Electron) and Android (with Capacitor) from a single React codebase.
- Implemented real-time search and smart filtering by category, rating, and duration, consuming data from the Real Discount course aggregation API.
- Built a responsive, theme-able UI with dark/light modes to ensure a seamless user experience across desktop and mobile devices.

DCC Integration with Blender *Tech Stack: FastAPI, PyQt, SQLite, Blender API*

[GitHub]

- Developed a comprehensive Digital Content Creation (DCC) workflow by integrating a custom Blender plugin with a FastAPI backend and a PyQt desktop GUI.
- Built a RESTful API using FastAPI to manage asset inventory and handle real-time 3D object transformations requested from the Blender or PyQt clients.
- Created a real-time desktop interface in PyQt for interactive object manipulation and transformation tracking, with data persisted via SQLite.