

Swapnanil Basak

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SUMMARY

Passionate and detail-oriented Web Developer with a strong foundation in front-end and back-end technologies. Skilled in building responsive, user-friendly websites and web applications using modern frameworks and tools. Having experience solving problems, optimizing performance, and collaborating with cross-functional teams to deliver high-quality solutions. Always eager to learn emerging technologies and apply innovative approaches to real-world challenges.

EDUCATION

Vivekananda Institute of Professional Studies

Master of Computer Applications (MCA)

New Delhi, IN

2023 – 2025

Trinity Institute of Professional Studies

Bachelor of Computer Applications (BCA)

New Delhi, IN

2020-2023

TECHNICAL SKILLS

Programming & Web: HTML5, CSS3, JavaScript (ES6+), TypeScript, React.js, Redux, RTK Query, Tailwind CSS, ShadCN/UI, Framer Motion, React Hook Form

Backend & APIs: Python, Java, C/C++, Express.js, Django, FastAPI, RESTful APIs, Authentication & Authorization, MySQL, MongoDB

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Streamlit, Jupyter Notebook

Tools: Git, GitHub, Postman

PROJECTS

SVARA - Music Player

Cross-Platform Music Player

August 2025

React.js, Electron, Python, Fastapi

- Built a music player with Electron, React, and FastAPI, streaming via yt-dlp + VLC.
- Added playlist management, caching, and advanced playback controls.
- Designed a responsive UI with light/dark themes for modern user experience.

Projex - Music Player

Desktop Project Manager

September 2025

React.js, Electron, SQLite

- Built a cross-platform project manager using Electron, React, Node.js, and SQLite3.
- Developed folder tagging, advanced search/filtering, favorites/pinned projects, and archiving.
- Created a modern UI with responsive layout, dark/light mode, smooth animations, and view toggles.

Guess-Em-All

Pokémon Guessing Web Game

August 2025

React.js, Node.js, MongoDB

- Developed an interactive Pokémon guessing game using React, JavaScript and MongoDB.
- Implemented game logic with randomized Pokémon selection, hints, and score tracking.
- Designed a responsive UI with engaging visuals and animations for better user experience.

Exploratory Data Analysis on Geolocation Data

Exploratory Data Analysis

Feb 2024 – May 2024

Python, Matplotlib, Seaborn, Flask

- Analyzed large-scale geolocation data using Python libraries like Pandas, Matplotlib, and Seaborn.
- Discovered spatial patterns and anomalies through visualization and correlation analysis.
- Prepared data-driven insights to support urban planning and mobility research.

EXPERIENCE

IBM SkillsBuild Data Analytics Internship

June 2024 – Aug 2024

IBM

- Gained hands-on experience in Python, Pandas, and Matplotlib for data analysis.
- Conducted exploratory data analysis and generated actionable insights.
- Completed real-world business case studies with a focus on visualization and storytelling.

Microsoft Data Analyst Associate Internship

Feb 2023 – Mar 2023

Honeywell

- Built interactive dashboards using Power BI for real-time data visualization.
- Applied data modeling techniques and DAX functions to enhance report accuracy.
- Integrated Power BI with Excel and SQL-based tools for efficient data transformation.

CERTIFICATIONS

- IBM SkillsBuild Summer Internship program with CSRBOX in Data Analytics
- Microsoft Data Analyst Associate (DA-100)