

Swapnanil Basak

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SUMMARY

Full-stack web developer with experience building responsive web applications, REST APIs, and cross-platform desktop apps. Skilled in front-end frameworks, back-end development, database design, and data analysis. Strong problem-solving and collaborative abilities with a focus on measurable results.

EDUCATION

Master of Computer Applications (MCA) <i>Vivekananda Institute of Professional Studies</i>	2023 – 2025 New Delhi, IN
Bachelor of Computer Applications (BCA) <i>Trinity Institute of Professional Studies</i>	2020 – 2023 New Delhi, IN

TECHNICAL SKILLS

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

Backend: Python, Java, C/C++, Express.js, Django, FastAPI, REST APIs

Databases: MySQL, MongoDB, SQLite

Data & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Streamlit

Tools & DevOps: Git, GitHub, Postman, VS Code, Basic Docker, Linux CLI

Other: RESTful API design, CRUD operations, Agile workflow, Unit Testing, Responsive UI/UX

PROJECTS

SVARA – Cross-Platform Music Player <i>React.js, Electron, Python, FastAPI</i> <ul style="list-style-type: none">Engineered desktop music player integrating yt-dlp + VLC for streaming, supporting 1000+ songs with 30% faster load times.Built playlist management, caching, and advanced playback controls for improved user experience.Planned and implemented responsive light/dark UI to enhance accessibility and engagement.	Aug 2025
Projex – Desktop Project Manager <i>React.js, Electron, SQLite, Node.js</i> <ul style="list-style-type: none">Created project manager with folder tagging, search/filtering, and archiving, improving project organization efficiency by 40%.Applied local persistence using SQLite3, indexing 500+ projects.Planned responsive UI with smooth animations for better user interaction.	Jun 2025
Guess-Em-All – Pokémon Guessing Game <i>React.js, Node.js, MongoDB</i> <ul style="list-style-type: none">Built interactive game with randomized Pokémon selection, supporting 1000+ players.Enhanced player engagement by 25% via hints and streak tracking.Stored player statistics and game state in MongoDB for real-time updates.	May 2025
QuickLinkr – Smart URL Shortener <i>FastAPI, SQLite, JavaScript</i> <ul style="list-style-type: none">Built full-stack URL shortener supporting 2000+ URLs with custom aliases, expiration, and QR code generation.Applied backend APIs using FastAPI and SQLAlchemy, improving response speed by 35%.Created analytics dashboard to track clicks, devices, and locations.	Jan 2025
SnipVault – Chrome Extension <i>JavaScript, Manifest V3, Prism.js</i> <ul style="list-style-type: none">Engineered Chrome extension to save, organize, and reuse 500+ code snippets efficiently.Applied real-time updates using chrome.storage API.Planned intuitive popup UI with responsive layout and keyboard shortcuts.	Oct 2025
EDA on Geolocation Data <i>Python, Matplotlib, Seaborn, Flask</i> <ul style="list-style-type: none">Analyzed 1M+ geolocation points, identifying spatial patterns and trends.Created visualizations supporting urban planning and mobility research, increasing insight extraction by 30%.	Feb–May 2024

EXPERIENCE

IBM SkillsBuild Data Analytics Internship <i>IBM</i> <p>Analyzed datasets using Python (Pandas, Matplotlib), delivering actionable insights that improved reporting efficiency by 20%.</p>	Jun–Aug 2024
Microsoft Data Analyst Associate Internship <i>Honeywell</i> <p>Built interactive dashboards using Power BI with DAX and SQL, reducing report generation time by 25%.</p>	Feb–Mar 2023

CERTIFICATIONS

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

PORTFOLIO & ONLINE PRESENCE

Portfolio Website
GitHub: Swapnanilb
LinkedIn: swapnanil02