

SWAPNANIL SINHA

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SUMMARY

Software Development Engineer II – Full Stack with mid-level expertise delivering end-to-end web solutions. Led development of a scalable data analytics platform using Next.js, TypeScript and an AI recommendation engine, boosting processing speed by 30%. Built high-performance APIs and interactive tools for customer ease. Seeking to apply full-stack skills to drive innovative products and measurable business impact.

EXPERIENCE

Sigmoid Analytics

Jul 2025 - Present

Software Development Engineer II - Full Stack

- Lead development of advanced data-analytics solutions using Python, Node.js, microservices on AWS, and Grafana, designing scalable architectures that reduced data-processing latency and enabled real-time dashboards
- Develop and maintain scalable data pipelines and analytics solutions with Next.js, TypeScript, and an AI recommendation engine on AWS, delivering personalized insights that increased user engagement

Comviva Technologies

Jan 2022 - Jul 2025

Senior Software Engineer

Developed scalable APIs and USSD value-added services for mobile banking systems, aligning with streamlined software development life cycle practices.

- Implemented web features for the LEAP product with Node.js and React.js, delivering a consistent UI built with HTML and CSS
- Analyzed time-series data from InfluxDB and built KPI dashboards in Grafana, enabling data-driven decisions

Ckuens Analytics

Jul 2021 - Sep 2021

Data Science Intern

Engineered machine learning models using Python to classify and predict heartbeat signal anomalies with rigorous testing and validation.

- Processed and analyzed datasets with NumPy, Pandas, and Matplotlib, then presented key findings to senior management, informing their decision-making on product development

PROJECTS

DataGuard DQ

Sep 2025 - Present

Sigmoid

- Engineered Dataguard to flag anomalies and suggest corrections in client historical datasets, reducing data errors by ~30% and improving reliability.
- Built streamlined interfaces for data viewing and management, cutting manual review time by ~40% and enabling faster stakeholder decisions.

LEAP Studio Platform Feature Improvement

Jan 2024 - Jul 2025

Comviva Technologies

- Developed and deployed features from inception to testing, elevating Leap to an enterprise-level tool.
- Rapidly developed and implemented new features using React, Express, and Node.js.
- Features received positive feedback and have boosted customer productivity by upto 35%.

Airtel Money

Aug 2024 - Jul 2025

Comviva Technologies

- Designed and implemented a user-friendly interface to manage Merchant and Subscriber financial transactions.
- Set up dedicated Leap instances to ensure secure and interference-free monetary transactions for users across 14 countries.
- Successfully integrated UNO-FLARES, Mobiuity, and Leap Studio for seamless system interoperability.

Abhi Skill - Upskilling Platform

Jul 2020 - May 2021

- Created an online skill-based learning platform for blue-collar workers to upskill and establish a community around their skills.

Hotel Bookings Management Application | [Visit](#)

Aug 2024 - Sep 2024

- Developed an Airbnb-inspired user interactive web application on Vercel, utilizing TypeScript and Next.js for a seamless user experience. Utilized Git for version control throughout the project, with the repository publicly accessible.
- Created the interface using the shaden/ui library, and efficiently handled user, property, and booking data with Prisma DB, built on PostgreSQL/MongoDB.
- Integrated user account management using Clerk API and payment processing using the Stripe API.

Cadance Run Club - Web App | [Visit](#)

Jun 2025 - Present

Freelance

- Developed a responsive and community-centric website for Cadance Run Club, aimed at streamlining event coordination and runner engagement. The platform includes robust backend features for event scheduling, participant registration, and a full PhonePe payment gateway integration to ensure secure and hassle-free transactions.
- The platform has upgraded and exposed the organisation to nearly 80% more engagement and is a popular choice among event goers.

SKILLS

- **Frontend Development:** HTML, CSS, React.js, Next.js
- **Backend & Frameworks:** Node.js, Express.js, Authentication, Microservices, FastAPI
- **Programming Languages:** JavaScript, TypeScript, Python
- **Databases:** SQL, Redis, MongoDB, PostGresQL, Supabase
- **Tools & Technologies:** Linux, Git Versioning, Grafana, Microsoft Office, Data Structures and Algorithms, AWS, Vercel, Azure AD

EDUCATION

SRM Institute of Science and Technology

Jun 2018 - May 2022

Bachelor of Technology, Electronics and Communication Engineering

- **GPA:** 8.53 / 10.0

ACHIEVEMENTS

- **Freelance Web Apps:** Developed web applications similar to the HSR Run Club platform for multiple clients, delivering tailored solutions that enhanced community engagement and received positive feedback.
- **Comviva Hackathon 2023:** Runner up for developing a demo chatbot for Leap. Users could interact with the bot to get tips, data samples, and screenshots, enabling a understanding of how to navigate and utilize the tool effectively.
- **Event Management:** Led over 15 successful community events under HSR Run Club, fostering local engagement and participation. Additionally, coordinated two high-impact technical events during SRM Aarush '19 and '20, driving innovation and hands-on learning among attendees.