

Shreya Chauhan

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SUMMARY

Final-year Computer Science student with hands-on experience building full-stack and data-driven applications using Java, Python, React, Next.js, SQL, Docker, and modern CI/CD workflows.

EDUCATION

Dehradun Institute Of Technology (CGPA – 9.6)

Bachelor of Technology in Computer Science — Expected Graduation: May 2027.

Dehradun, U.K, IN

2023 – Present

Relevant Coursework: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL

Frontend: React.js, Next.js, HTML, CSS, Streamlit

Backend & Databases: Supabase, PostgreSQL, MySQL

DevOps & Tools: Git, GitHub, Docker, Jenkins, GitHub Actions, Jira, Linux

Methodologies: Agile, Scrum, Kanban

EXPERIENCE

Software Engineer Intern – Zbigniew Institute (Web Development)

(Remote) May 2024 – July 2024

- Developed responsive web components using **HTML5**, **CSS3**, and **JavaScript**, ensuring consistent layouts across multiple browsers and screen sizes.
- Built and integrated **RESTful APIs using Node.js** to support frontend-backend data communication and dynamic content.
- Debugged, tested, and reviewed application code, resolving **15+ functional and UI issues** and improving overall application reliability.

PROJECTS

ShreyaDesk AI – Indian Equity Markets Algo Trading System | React.js, Python, FastAPI

2026

- Built a full-stack **algorithmic trading** dashboard for live equity markets, integrating direct **broker-level execution** via the Zerodha Kite Connect API with OAuth-secured session management
- Designed and implemented a custom technical analysis engine computing **Supertrend**, **RSI**, and **MACD** indicators on live and historical market data.
- Architected a production-grade deployment pipeline using FastAPI, **Nginx**, and **systemd**, with **CSRF**-protected sessions, and full audit logging for account-level security

Satellite Crop Health Scanner | Python, Docker

2026

- Built and deployed a **geospatial crop health app** in **Python** and **Streamlit**, using **NumPy**, **Rasterio**, and **Sentinel-2 imagery** for pixel-level **NDVI analysis** and **vegetation classification**
- Built a **GeoTIFF** processing pipeline handling **raster alignment**, **CRS** checks, **nodata** and invalid-pixel filtering, and size validation, with interactive **Matplotlib/Streamlit** visualizations and GIS-ready **CSV/GeoTIFF** exports.
- Set up **Pytest**, **Ruff**, **GitHub Actions**, and **Docker** for automated testing, code quality checks, **CI/CD**, and reproducible deployment — hosted live on **Streamlit Community Cloud**.

FinancialFlow | Next.js, TypeScript, Tailwind CSS

2025

- Architected **FinancialFlow**, a full-stack-caliber finance app with **Next.js + TypeScript** for SSR and type safety, **React Hooks** for reactive state (balances, transactions, goals, budgets), **Framer Motion** animations, and a reusable **Tailwind CSS** component library (Button, Input, Card, Table, Select, Progress)
- Built a real-time financial intelligence layer with a **custom Financial Health Score algorithm** (spending, savings, debt ratios) and interactive **Chart.js** visualizations that update live with user input
- Optimized performance via **SSR**, **lazy loading**, and **selective re-rendering**, backed by **Jest/Cypress/Playwright** testing across unit, integration, and E2E layers, with local storage persistence and a roadmap toward cloud sync

LEADERSHIP & ACTIVITIES

Smart India Hackathon Participant

Issued: Feb 2025

- Collaborated on an automated attendance-system concept integrating facial recognition, biometric verification, and cloud-based records.

Career Development Cell Member, DIT University

Issued: Feb 2025

- Supported event coordination, student engagement, and execution of campus activities.