

SAGNIK DATTA

Web Developer Intern

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LinkedIn | GitHub

PROFESSIONAL SUMMARY

Motivated and detail-oriented Computer Science undergraduate at VIT Vellore with hands-on experience in artificial intelligence, machine learning, and data analysis. Proficient in Python and C++, with a strong foundation in algorithms, data structures, and software engineering principles. Demonstrated ability to develop AI-driven projects and collaborate in virtual software engineering internships. Seeking an AI Intern position to leverage technical and analytical skills in solving real-world challenges.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, HTML, CSS, JavaScript, Tailwind, React.JS, Typescript
- **AI/ML:** Supervised Learning, Unsupervised Learning, Model Evaluation, Data Preprocessing
- **Tools:** Git, GitHub, UML, API Integration
- **Soft Skills:** Problem Solving, Communication, Teamwork, Project Management

WORK EXPERIENCE

Software Engineer Intern — Electronic Arts — Remote Apr 2025 – May 2025
Job Simulation (Forage)

- Proposed and designed a new “Rewind Dynasty Mode” feature to enhance user experience and gameplay flexibility.
- Developed UML class structures and implemented core game logic using C++.
- Collaborated with cross-functional teams to align design decisions with product goals.
- Identified and resolved software bugs, improving system stability and user satisfaction.
- Improved game functionality and stability by resolving a critical bug.

Front-End Software Engineering Intern — Skyscanner — Remote Feb 2026 – Mar 2026
Job Simulation

- Built a Backpack React web application, focusing on component-based architecture and UI design.
- Implemented responsive layouts and interactive elements using modern front-end practices.
- Applied React fundamentals including state management and reusable components.
- Improved user experience through clean UI structuring and efficient rendering.

PROJECTS

- **anyFileToPDF:** Developed a Python utility to convert diverse file types to PDF.
- **fileCompressor:** Designed a Python script for file compression using efficient algorithms.
- **than0s bot:** Built an AI-powered Discord bot using NLP and API integration.
- **Noto.ai:** Engineered an AI-powered study toolkit with OCR and summarization.
- **Rock-paper-scissor AI:** Created an adaptive AI game using Python, LLaMA 3, and Streamlit.
- **Real-Time Crypto Arbitrage Detection:** Developed a Python-based system to monitor cryptocurrency prices across multiple exchanges and detect arbitrage opportunities in real time. Implemented multi-exchange price comparison, automated spread detection, and alert mechanisms to identify profitable trading gaps efficiently.

EDUCATION

- **Bachelor’s Degree, Computer Science (IoT)** 2024 – Present
Vellore Institute of Technology, Vellore
- **CBSE, Computer Science** 2022 – 2024
G D Goenka Public School, Dakshineswar
- **ICSE, Science** 2011 – 2022
Don Bosco School, Liluah

CERTIFICATIONS

- **Frontend Software Engineering Job Simulation** – Skyscanner (Forage), 2026
- **Software Engineering Job Simulation** – Electronic Arts (Forage), 2025
- **Python: Mastering The Essentials** – Scaler, 2025
- **Python: Data Structures** – Great Learning, 2025
- **Generative AI for Beginners** – Great Learning, 2025

ACHIEVEMENTS

- Qualified in the Top 28% (Top 50 out of 180 teams) in VIT Vellore's Reverse Coding Competition, 2025 organized by ACM-VIT.
- Qualified in the Top 36 teams in VIT Vellore's Reverse Coding Competition, 2026 organized by ACM-VIT for the second consecutive year.

LANGUAGES

English, Bengali, Hindi

Links:

LinkedIn: <https://www.linkedin.com/in/sagnik-dattta-b48932208>

GitHub: <https://github.com/sagnikdatta2k6>