

Shuvam Dutta

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WORK EXPERIENCE

Cputek Pvt. Ltd.

Apr. 2026 – Sept. 2026

Software Development Intern

Remote

- Built and deployed client landing pages from wireframe specifications for clients in healthcare and B2B SaaS sectors.
- Supported teammates on client deliverables within a professional agency environment.

EDUCATION

Bengal Institute of Technology

Aug. 2026

B.Tech in Computer Science Engineering (AI & ML)

Kolkata

- Relevant coursework: Artificial Intelligence, Machine Learning, Data Structures, NLP.

HACKATHONS

Hear-Me-Out — Bits2Bytes 2k24

- Led a 4-member team to ideate and ship an anonymous multilingual feedback platform within a single hackathon session.
- Built the student submission page in HTML/JavaScript and the admin dashboard in Python/Tkinter, displaying sentiment stats, feedback categories, and uploaded images.

PROJECTS

Agentic Document Understanding System

[Live](#)

Python, Streamlit, Gemini API, scikit-learn, PyMuPDF

- Built a document analysis tool where a Gemini agent autonomously selects which analyses to run per file — supports PDF, TXT, and DOCX with per-document reports, cross-file similarity scoring, and a multi-document chat interface.
- Added a fully offline mode using TF-IDF and rule-based logic that processes documents instantly without any API dependency, so the app works even when the Gemini API is unavailable.
- Fixed corrupted text extraction on multi-column PDFs by switching from pdfplumber's line-based reader to PyMuPDF's block-based extractor, retaining pdfplumber as a fallback for edge cases.

Climex

[Live](#)

React, TypeScript, TanStack Query, Zustand, Zod

- Built a production-grade weather PWA that combines live weather forecasts, global earthquake tracking from USGS, world clocks, a meeting planner, and a time-difference calculator — all client-only with no backend or user accounts.
- Solved a fragile 3-step geolocation chain — HTML5 coordinates → BigDataCloud reverse geocoding → Open-Meteo weather fetch — by designing a sequential async pipeline that handles failure at each stage independently without corrupting UI state.
- Implemented a weatherProvider adapter interface so the weather data source can be swapped without touching any component code, and validated every API response with Zod at the network boundary so unexpected data shape changes fail loudly instead of silently.

CERTIFICATIONS & TECHNOLOGIES

- **Certifications:** AWS Cloud Foundations; AWS Machine Learning Foundations; Programming with Python Professional Certificate (OpenEDG Python Institute); Docker Foundations Professional Certificate
- **Technologies:** Python; JavaScript; SQL; Git; React; Node.js; Express; MongoDB; TanStack Query; TypeScript; Zustand; Zod; Pandas; NumPy; Scikit-Learn; LangChain; NLP; RAG Architecture; Docker