

Jeet Shah

Data Engineer

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Education

Columbia University

M.S. Computer Science, Network Systems Pathway · New York, NY

Sep 2026 – Expected Dec 2027

FLAME University

B.Sc. (Hons.) Computer Science; PG Diploma in Interdisciplinary Studies · Pune, India
CGPA: 8.9/10; merit scholarships covering 25% (2021–2024) and 60% (2024–2025) of tuition.
Selected completed coursework: Advanced Database Systems, Distributed Systems.

Aug 2021 – May 2025

Engineering and Data Experience

Voltek AI

Software Engineer (Part-time)

Oct 2024 – Aug 2026

- Redesigned PostgreSQL process storage from join-heavy tables to three indexed canonical tables with transactional writes and validated backfills; reduced observed material-query latency from 3–20 seconds to under 500 ms.
- Co-maintained NDAX and Neware instrument-data ingestion pipelines, including file reconciliation and defensive parsing for incomplete file sets.
- Built a Next.js battery-research assistant with internal-document retrieval, web search, citations, streamed responses, and chat history across four model providers.
- Led frontend development for an internal battery-research platform used by 10–100 [Nanoloy](#) users.

Elevate Fitness

Software Engineer (Part-time)

Dec 2025 – Aug 2026

- Built multi-ticket booking and Razorpay payment recovery and reconciliation for Movynn, a React Native/Expo fitness app backed by Convex and published on the Apple App Store and the Google Play Store in India.
- Required server-confirmed payment capture before fulfillment; added account-deletion and pseudonymization flows, automated app/backend tests, and CI checks.

Centre for Interdisciplinary AI, FLAME University

Research Assistant

Jan 2024 – May 2025

- Co-developed satellite-data ingestion tooling and ConvGRU, conditional-GAN, and ConvLSTM training pipelines for precipitation nowcasting.
- Administered a multi-user GPU server, managing user accounts, drivers, storage, and isolated training environments.

Analyse India

Technical Intern

May 2022 – Aug 2022

- Built Python tools to collect and normalize Google Finance and Yahoo Finance data for National Stock Exchange-listed companies.
- Backtested trading strategies, calculated returns and technical indicators, and implemented candlestick-pattern detection and alerts in MetaStock.

Selected Data and Software Projects

INSAT-3D Nowcasting Data Pipeline

[Thesis & code](#)

- Built satellite-data caching, temporal-window generation, and ConvLSTM training/evaluation pipelines in Python, TensorFlow/Keras, OpenCV, and HDF5.
- Reduced six-hour forecast RMSE by 30.7% against a Lucas–Kanade optical-flow baseline; undergraduate thesis supervised by Kaushik Gopalan (2025).

JJDB and Distributed Systems Coursework

[Database](#) · [Clocks](#)

- Built a C++ command-line database with schema files, CSV loading, record operations, and column indexes; implemented Lamport and vector clocks in Python to study causality and event ordering.

Technical Skills

Programming and storage: Python, SQL, TypeScript, C++; PostgreSQL, Convex, SQLite, HDF5.

Data processing: NumPy, OpenCV, satellite-data caching, temporal-window generation, instrument-data ingestion, file reconciliation, database backfills.

Infrastructure and tooling: Linux, Docker, Git, GitHub Actions, GPU-server administration, TensorFlow/Keras.