Jitendra Dara

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Experience

Backend Intern May 2026 – July 2026
Kyaalaoon.in *Remote*

- Built the MVP backend in Django Ninja and PostgreSQL with REST APIs for catalog browsing, pincode-based inventory filtering, and order routing.
- Implemented cart and checkout logic that locks **item price snapshots** at order creation to prevent mid-order price drift, along with mock payment webhook handlers for asynchronous order updates.

Projects

LazyPortal | *Vite, Capacitor, Vercel* | GitHub | Live Oct. 2026

- Built and shipped an offline-first student portal PWA and Android app serving **∼550 weekday daily active users**.
- Engineered a streaming reverse proxy with persistent TCP connections, cutting serverless CPU time by **73%** and halving API calls via client-side checksum caching.
- Re-implemented the college portal's daily-rotating AES-128-CBC request encryption in WebCrypto and wrote a client-side HTML5 Canvas captcha solver for instant, automated attendance loads.

Goodix Fingerprint Driver (`goodix-5e0a`) | *C, Python, libfprint, Linux* | GitHub | Blog Sept. 2026

- Reverse-engineered the USB protocol and TLS 1.2 PSK encryption layer for an unsupported Goodix fingerprint sensor to enable native Linux login via `libfprint` and `fprintd`.
- Replaced standard Bozorth3 matching, which failed on the tiny 64x80 capture area, by bridging the vendor's proprietary Windows template-stitching DLL into `libfprint` in C without Wine.
- Cut `sudo` and PAM authentication latency from **400 ms to 35 ms** by parking active TLS sessions across prompts and verifying on the first captured frame.
- Debugged hardware calibration and PSK provisioning across GitHub issues, getting biometric login working for community users on Fedora, NixOS, and Ubuntu.

OmaConnect | *Bash, GDBus, Python, QML* | GitHub | Registry Aug. 2026

- Created and maintain an open-source KDE Connect status bar plugin for Omarchy Linux with **40 stars and 7 forks** across 5 external contributors.
- Used Bash and GDBus to query the KDE Connect daemon for phone battery and 5G signal status, and to trigger quick actions like file sharing, clipboard sync, SMS, and device pinging.
- Added Tailscale VPN peer discovery, one-click UFW and `firewalld` port setup, and media player controls.

Grid-Load Forecast | *Python, scikit-learn, Pandas, GitHub Actions* | GitHub | Live June 2026

- Built an automated GitHub Actions data pipeline that scrapes daily Indian electricity demand from `npp.gov.in`, maintaining a public dataset of **100,000+ rows** synced to Kaggle.
- Trained a Ridge Regression model using historical time-lag features to publish a rolling **48-hour** demand forecast on a static web dashboard.

Technical Skills

Languages: Python, C, C++, JavaScript, SQL, Bash
Frameworks & Tools: Django, Django Ninja, Vite, Capacitor, Linux, NixOS, Git, GitHub Actions, GDBus
Libraries & Databases: PostgreSQL, NumPy, Pandas, scikit-learn

Achievements

Competitive Programming: Solved **500+ problems** across platforms with a **1575** max rating on LeetCode.
Open Source & Writing: Authored a technical write-up on reverse-engineering Linux hardware drivers with AI agents and maintain active Linux desktop and driver repositories.

Education

Jaypee University of Engineering & Technology Guna, MP
Bachelor of Technology in Computer Science *Aug. 2024 – June 2028 (Expected)*

Jawahar Navodaya Vidyalaya Nagaur, Rajasthan
CBSE Class XII *May 2023*