PRABIN AYER

GRADUATE SOFTWARE DEVELOPER • FINAL-YEAR BSc (HONS) COMPUTING SCIENCE

Southall, London | 07775 773818 | ayerprabin95@gmail.com

jdesport.co.uk | github.com/AyerPrabin | linkedin.com/in/ayerprabin | ayerprabin.github.io/prabin-ayer-portfolio

PROFILE

Final-year Computing Science student at CU London (71% First Class average at Level 5) who ships and operates production software. I designed, built and run JD Esports Arena, a live tournament and points-wallet platform with 450+ registered players, real payments and an audited ledger, and I am building the operations system for my family's motorcycle dealership. Strong in PostgreSQL data modelling, backend logic and incident response. Seeking a graduate software engineering role from August 2027; willing to relocate anywhere in the UK.

PROJECTS

JD Esports Arena: tournament and points-wallet platform — **2026 – Present**

jdesport.co.uk · PostgreSQL (Supabase), TypeScript/Deno Edge Functions, JavaScript, Java (Android), GitHub Actions

- Designed, built and operate a live platform where Free Fire players in Nepal enter tournaments and 1v1–4v4 challenges with a points wallet: 450+ registered players, up to 129 active in a single week, 30+ events run.
- Built the wallet as an append-only ledger: every balance change goes through one function that takes a row lock (*SELECT … FOR UPDATE*), a CHECK constraint blocks negative balances, unique payment references stop double credits, and a scheduled audit freezes payments if any balance drifts from its ledger.
- Secured it with row-level security on every table and writes only through server-side functions; payments, payouts, refunds and moderation run in 58 TypeScript Edge Functions; wallet PIN hashed with bcrypt and a lockout.
- Engineered **JD Admin**, an under-30 KB native Android notification listener with no libraries: it forwards eSewa "money received" alerts with an offline retry queue, so moderators match each load to a real payment in seconds without a merchant API.
- Diagnosed a provider data-transfer block (HTTP 402): one call sent every squad logo as base64 (937 KB per page open). Replaced it with cached logo keys, version-stamp polling and exact-column queries, and set data-budget rules for every new feature.
- Recovered from a bad admin publish that wiped live events within minutes, then added a server-side guard and version history; run releases, player support and live-data fixes with reviewed SQL and rollback scripts.

Jay Durge Automobiles: dealership operations system (ERP) — **Ongoing**

TypeScript, Express, PostgreSQL, React (Vite), JWT with PIN step-up

- Building the system for my family's authorised TVS dealership and workshop in Nepal: job cards, bike sales and finance, customer dues, cash book, stock, attendance and payroll, with SMS service reminders.
- Imported years of Excel history (sales, enquiries, workshop retail); designed multi-tenant from day one so a second business unit can share the core.

Also on GitHub: jd-ledger, a Python/PostgreSQL wallet ledger with idempotency keys and ordered row locks; k6 load test: 21,781 transfers from 200 concurrent users, 0 errors, all invariants held · React/TypeScript scoring app (95 tests) · fair-play anomaly detection (99 tests) · FastAPI + Docker API

EDUCATION

BSc (Hons) Computing Science — **Expected Jul 2027**

CU London (Coventry University Group)

- Level 5: 71.00% (First Class average) · Level 4: 68.59%

TECHNICAL SKILLS

Languages: SQL, Python, TypeScript, JavaScript, Java (Android), C, HTML/CSS

Frameworks and tools: Supabase / PostgreSQL, FastAPI, React (Vite), Git and GitHub, GitHub Actions (CI), Docker, Android

Data and backend: PostgreSQL data modelling, transactions and row locking, row-level security, REST APIs, Edge Functions

Testing: pytest (200+ tests across my public repos), Vitest and Playwright, debugging live production data

WORK EXPERIENCE (ALONGSIDE STUDY)

Waiting Staff · *Leonardo Hotel, London* — **Feb 2026 – Present**

Bartender, Waiter and Barback shifts · *The Savoy, Nobu, The Ned, Grosvenor House, Sky Garden, One Aldwych, KOKO and more* — **2025 – Present**

- Busy customer-facing service in teams: calm under pressure, clear communication, reliable on early, late and night shifts.

ADDITIONAL INFORMATION

Languages: English, Hindi, Nepali. Right to work: UK Student visa until graduation (July 2027); I will need Skilled Worker visa sponsorship after that.