PRABIN AYER

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

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PROFILE

I'm a final-year Computing Science student at CU London (71% at Level 5) and I pay for my degree working hotel and bar shifts. In my own time I built JD Esports Arena, a tournament site for Free Fire players in Nepal. It has 450+ players and takes real money, so when something breaks, I'm the one who fixes it. I'm also building the system my family's motorbike dealership will run on. I'm looking for a graduate software engineering job from August 2027 and I'm happy to move 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

- Players join tournaments and 1v1 to 4v4 challenges and pay with a points wallet. 450+ have signed up, up to 129 play in a week, and I've run 30+ events.
- Money was the part I couldn't get wrong. Every balance change goes through one database function that locks the row first (*SELECT … FOR UPDATE*). A CHECK constraint stops balances going below zero, a unique reference stops the same payment being credited twice, and a scheduled check freezes payments if a balance ever disagrees with its ledger.
- Every table has row-level security, and players can only write through server functions. Payments, payouts, refunds and moderation are 58 TypeScript Edge Functions. Wallet PINs are hashed with bcrypt and lock after wrong tries.
- There's no merchant API for eSewa in Nepal, so I wrote **JD Admin**, a tiny Android app (under 30 KB, no libraries) that reads the "money received" notification and sends it to the site. Moderators can now match a payment to a player in seconds.
- In November the database host blocked the site for using too much data (HTTP 402). I traced it to one call that sent every squad logo as base64, 937 KB each time a page opened. I switched to cached logos, lighter polling and only the columns needed, and wrote a post-mortem.
- Once a bad admin publish wiped the live events list. I restored it, then added a server-side check so it can't happen again.

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

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

- My family runs a TVS dealership and workshop in Nepal, and everything was in Excel. I'm building one system for job cards, bike sales and finance, customer dues, the cash book, stock, attendance and payroll, with SMS service reminders.
- I imported years of their old spreadsheets, and set it up so a second branch can use the same system later.

Also on GitHub: jd-ledger, a Python/PostgreSQL ledger I load-tested with k6: 21,781 transfers from 200 users at once, no errors and no money lost · a React/TypeScript scoring app (95 tests) · a cheat-spotting tool for match results (99 tests) · a 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**

- Big events and busy floors where you have to stay calm, talk clearly to guests and the team, and turn up on time for early, late and overnight 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.