

Jatin Kumar Sharma

Bachelors of Computer Science and Marketing Minor

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Github: [GitHub link](#)

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Profile

UNSW CS (WAM 75+), systems/networking/backends focus; shipping security-minded backends with measured performance; available Nov - Feb 2025-26.

Technical Skills

- **Languages:** Python, TypeScript/JavaScript, SQL (PostgreSQL), POSIX shell (dash/sh), Java, C, HTML/CSS
- **Systems/Networking:** TCP/UDP sockets, HTTP/1.1, Wireshark, DNS, Linux CLI
- **Security/Crypto:** X25519, HKDF, XChaCha20-Poly1305, basic threat modelling
- **Data/Tools:** PostgreSQL, PL/pgSQL, Git, Make, Regex, Markdown
- **Marketing:** Consumer behaviour, brand analysis

Selected Projects — UNSW & Personal

Local “mygive” Clone — POSIX Shell (dash) · May–Aug 2025

Repo: <add repo link>

Re-created UNSW-style submission/autotest pipeline (pure POSIX); **100% test parity**, <1s typical submit; atomic snapshots/rollback, deterministic diff, precise exit codes.

DungeonMania — Java (OOP/Clean Code) · Oct–Nov 2024

Repo: <add repo link>

Refactored legacy engine to SOLID; modularised entities/combat/goals; **all tests passing**, reduced smells, clearer extension points.

Kahoot-style Quiz Backend — TypeScript, Node.js, HTTP · May-Aug 2024

Repo: <add repo link>

Implemented session/quiz orchestration with correct HTTP semantics; led planning & unit tests; stable multi-session runs.

End-to-End Encrypted Chat — Python (asyncio, TUI) · Jul–Aug 2025

Repo: <add repo link>

X25519+HKDF handshake; XChaCha20-Poly1305 AEAD; Wireshark-verified; property tests; robust shutdown/error paths.

Also built: Online forum (TCP & UDP) in Python; CheeseDB with advanced SQL/PL/pgSQL views/functions.

Education

University of New South Wales (UNSW), Sydney — *Sep 2023 – Aug 2026*
Bachelor of Computer Science (Minor in Marketing) · **WAM: 75+**

Work Rights & Availability

- Student (subclass 500): up to **48h/fortnight** in teaching; full-time in breaks
- Availability: **~15–20 h/wk** during term; **full-time Nov–Feb**

Activities & Interests

Network measurement, shell tooling, SQL; running; exploring vegetarian spots in Sydney.