

# ARMAN THAKUR

Mohali, Punjab, India

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## EDUCATION

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Amity University

Aug 2025 – Jun 2029 (Expected)

Bachelor of Technology - Computer Science & Engineering

Mohali, Punjab

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Java, C, C++, Rust

**Frameworks & Front End:** React.js, Next.js, Tailwind CSS, WebSockets, Remotion

**Back End & Architecture:** Node.js, Express, Bun, REST APIs, GraphQL, BullMQ, Webhooks

**Databases & Security:** MongoDB, PostgreSQL, Redis, Drizzle ORM, OAuth 2.0, OpenID Connect, JSON Web Token

**Tools & Protocols:** Git, Docker, Nginx, Linux (Fedora/Arch), Nostr, Cashu (NUT-11)

## EXPERIENCE

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**Open Source Contributor: Shopstr**

Feb 2026 – Jun 2026

**Summer of Bitcoin 2026: Selected Developer**

Remote

- Secured selection for Summer of Bitcoin 2026 to architect a peer-to-peer public key Cashu escrow protocol on a Nostr marketplace, implementing 1 automated dispute resolution system via Cashu NUT-11.
- Spearheaded a **Zustand performance migration** for ProductContext, reducing worst-case component render times from **216ms to 2.2ms** to achieve a **98x optimization** over the legacy layout.
- Integrated 4 core engineering pull requests optimizing wallet configuration parsing, cryptographic keypair generation, local persistence layers, and multi-file asset compilation pipelines.

**Freelance Full Stack Developer**

Feb 2026 – May 2026

**Independent Contractor**

Remote

- Engineered **Mathlyst**, a production-ready, full-stack booking engine deployed for 1 Dubai-based education center within a strict 3-week timeline.
- Constructed transactional scheduling pipelines using the Google Sheets API and secure payment processing hooks, eliminating **100% of manual booking** maintenance tasks for the client.

## PROJECTS

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**DaemonContent: Autonomous Video Pipeline** | [GitHub](#) | **TypeScript, Bun, Express, Remotion**

- Architected an isolated asset generation system utilizing **TypeScript and Bun** that ingests structural topics to compile 14 short-form vertical videos weekly via Qwen LLM scripting.
- Programmed a headless rendering pipeline via **Remotion** and orchestrated programmatic distribution to 2 external networks using the Instagram Graph API (v25.0).

**DaemonDoc: AI-Powered Documentation Engine** | [Website](#) | [GitHub](#) | **Redis, BullMQ, LLaMA, Gemini**

- Automated README generation on every git push via GitHub Webhooks, achieving an **85% success rate across 1,000 automation runs for 50 users and 70 active repositories**.
- Orchestrated an asynchronous **Redis (BullMQ)** task queue with fault tolerance, securing 2 incoming pipelines via HMAC-SHA256 signature validation and AES-256-GCM encryption.

**Clura: Distributed Identity Provider** | [Website](#) | [GitHub](#) | **Next.js, Drizzle ORM, OAuth 2.0, OpenID Connect**

- Deployed a self-hosted OAuth 2.0 and OpenID Connect identity server using **Next.js and Drizzle ORM**, ensuring **100% decoupling** from standard third-party management vendors.
- Verified cryptographic security mechanics by issuing custom **RS256-signed JSON Web Tokens**, structuring 2 token rotation protocols, and exposing an authoritative JSON Web Key Set endpoint.

## COURSEWORK

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- Data Structures & Algorithms
- Object-Oriented Programming
- Discrete Mathematics
- Database Management Systems
- Operating Systems
- Computer Networks
- Digital Electronics
- Physics for Semi Conductor

## ACHIEVEMENTS

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- Global Finalist (Top 18):** HackFest 2025. Collaborated within a 3-member team during a 24-hour hackathon sprint, ranking in the top 6% globally out of all competitive entries.
- Certified Generative AI Professional & AI Foundations Associate: Issued by 1 global cloud provider, Oracle Cloud Infrastructure (OCI).

## LEADERSHIP

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- Computer Science Student Community:** Shared web development, backend, and DSA learning resources with peers, assisting students in understanding React, Node.js, MongoDB, and Java fundamentals.
- Open Source & Professional Networking:** Built connections with software engineers and recruiters through LinkedIn, actively engaging with developer communities and industry discussions.
- Hackathon Participant:** Collaborated in team-based development environments, contributing to project planning, implementation, debugging, and technical presentations under time constraints.
- Technical Content Creation:** Documented projects, deployment workflows, and backend architecture decisions through GitHub repositories and portfolio showcases.