

ARPIT SHARMA

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[Arpit Sharma](#)

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Education

The British College (Leeds Beckett University)

January 2021 – May 2025

Bachelor of Science in Computer Science

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, PHP, Rust, Solidity, Bash

Technologies/Frameworks: React.js, Next.js, Node.js, Express.js, FastApi, SpringBoot, Supabase

Database Design : MongoDB, MySQL, PostgreSQL

Cloud & Deployment : AWS (CloudFront, EC2, S3), Cloudflare, Docker

Developer Tools: Docker Desktop, Postman, AWS Management Console, Git, GitHub

Experience

Digital Horizons

Jan 2024 – Jan 2025

Software Engineer

- Developed and maintained enterprise web applications using React, Next.js, Spring Boot, and PostgreSQL, supporting customer workflows and internal operations.
- Automated payroll and inventory processes, reducing manual administrative effort and improving operational efficiency.
- Deployed and managed applications on AWS (EC2, CloudFront) using Docker, ensuring stable and reproducible production releases.

Sireto Technology

Dec 2025 – Present

Blockchain Engineering Intern

- Contributed to **kuber-client-js**, an open-source npm package used to interact with the Cardano blockchain via Kuber APIs for both mainnet and testnet environments.
- Worked with **Hydra**, Cardano's Layer-2 scaling protocol, to support high-throughput transaction flows and off-chain settlement experimentation.
- Developed and tested smart contracts using **Aiken**, focusing on correctness, on-chain validation logic, and safe transaction execution.

Projects

Wealth Management System | *Next.js, Express.js, PostgreSQL, Solidity, Python* | [Code](#)

May 2025

- Developed a full-stack personal finance platform supporting expense tracking, investment monitoring, and savings goals with secure JWT authentication.
- Integrated AI-based financial insights and implemented blockchain-backed transaction verification using Solidity smart contracts.

Cardano Payroll System | *React, Spring Boot, PostgreSQL, Cardano* | [Live](#) | [Code](#)

Dec 2025

- Designed and built an enterprise-grade payroll system that automates salary payments using on-chain ADA settlements, eliminating intermediaries and manual reconciliation.
- Implemented idempotent blockchain transaction flows and state-tracking to prevent double payments and ensure reliable financial execution.
- Built a secure REST backend with JWT-based role access, real-time transaction monitoring, and an immutable audit trail backed by Cardano blockchain.

Restore Digital Nepal | *Typescript, Supabase* | [Live](#) | [Code](#)

Sept 2025

- Built and deployed a mobile-first emergency website within 24 hours to support youth coordination during Nepal's anti-corruption movement.
- Designed a lightweight, high-availability platform capable of handling sudden traffic spikes during a politically critical moment.

Achievements

Harvard University

October 2024

CS50 Certificate in Computer Science

- Completed Harvard's CS50, a rigorous introduction to computer science covering algorithms, data structures, and web development.
- Gained proficiency in C, Python, SQL, and foundational problem-solving skills applicable across technical domains.