

# ARPIT SHARMA

Kupandole, Lalitpur

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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 | Live | 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.