

# Yash Sharma

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## Summary

Backend / Web3 Engineer with 2+ years of experience building high-performance DeFi and real-time systems. Specialized in Python (Flask/FastAPI) and Ethereum infrastructure. Designed low-latency APIs, blockchain listeners (300k+ tx/day), and provably-fair gaming engines. Seeking backend or Web3 engineering roles where I can build scalable distributed systems.

## Experience

**Software Engineer I – Backend**, Stackera, Pune, India Jul 2023–Present

### Client Project: Crypto Betting Platform (Nov 2023–Present)

- Architecting core backend services for real-time betting games including Dice, Plinko.
- Designing FastAPI microservices and PostgreSQL schemas for users, bets, sessions, and provably-fair mechanics.
- Implementing foundational betting logic, game sequencing, seed/nonce flows, and modular game engines.
- Building transaction-safe bet execution workflows and scalable session handling.

### Client Project: DexCheck.io (Jul 2023–Oct 2023)

- Scaled multi-chain blockchain listeners (ETH, BSC, Base) with Web3.py, cutting processing latency by 50%.
- Engineered FastAPI endpoints with Redis and Prometheus, achieving 120ms P95 latencies.
- Built Kafka-based ETL pipelines and analytics flows using partitioned PostgreSQL and RPC integrations.

### Software Development Intern (Apr 2023–Jun 2023)

- Developed and tested Python/Flask applications, reducing DeFi prototype processing time by 20%.

## Education

**Chaudhary Charan Singh University**, BCA, Uttar Pradesh, India Jun 2020–Jun 2023  
Relevant Coursework: Data Structures, Web Development

**Shaheed Captain Anuj Nayyar School**, High School, New Delhi, India 2013–2020

## Projects

**Binance API Data Fetcher** (Personal Project) 2023

- Developed a Python application utilizing the Binance API to retrieve 24-hour ticker statistics, including current price, 24hr high, and 24hr low for specified cryptocurrency trading pairs.

**Contacts API** (Personal Project) 2023

- Built a RESTful API with FastAPI for managing a contact book, enabling full CRUD operations on contacts stored in a JSON file backend.
- Deployed using Uvicorn server for efficient handling of HTTP requests.

**URL Shortener API** (Personal Project) 2023

- Built a Python URL shortening service with SQLAlchemy ORM for persistence, validation, and redirection; supports database-backed mappings.

## Skills

**Languages/Frameworks:** Python (Flask/FastAPI, SQLAlchemy), JavaScript (Intermediate), HTML/CSS

**Blockchain/Web3:** Ethereum, Web3.py, DEX APIs, JSON-RPC, Oracles (e.g., Chainlink)

**Databases & Storage:** PostgreSQL, Redis, QuestDB, MongoDB, MySQL, Elasticsearch

**Tools & Infra:** Git, Docker, Linux (Ubuntu), WebSocket, Apache Kafka, Prometheus

**Spoken Languages:** English (Fluent), Hindi (Native)