

# 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 2025–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 2025)**

- 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%.

## Skills

**Languages & Frameworks:** Python (FastAPI, Flask, SQLAlchemy), JavaScript, HTML5, CSS3

**Backend & Architecture:** REST APIs, API Design, Asynchronous Programming, WebSocket, Microservices Architecture, Authentication & Authorization (JWT)

**Databases & Data Engineering:** PostgreSQL, MongoDB, MySQL, SQLite, Redis, TimescaleDB, QuestDB, Elasticsearch, ETL/Data Pipelines, Time-Series Databases, Query Optimization, Indexing

**Blockchain / Web3:** Ethereum, Web3.py, JSON-RPC, DEX APIs, On-chain Data Indexing, Smart Contract Event Decoding, Oracles (Chainlink)

**Infrastructure & DevOps:** Docker, Docker Compose, Linux (Ubuntu), Amazon S3, Apache Kafka, Prometheus, PM2

**Tools:** Git, GitHub, GitLab, Swagger (OpenAPI)

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

## Projects

**PyDeadCode Finder** (Personal Project) 2025

- Created a Python-based static analysis tool to detect unused imports, functions, classes, variables, and unreachable code to improve code cleanliness.
- Implemented a command-line interface that scans entire project directories and generates detailed HTML reports for dead code detection.

**PyDuplicate Finder** (Personal Project) 2025

- Developed a Python tool to detect duplicate files across directories using file hashing (MD5/SHA), enabling faster cleanup and storage optimization.
- Implemented a command-line interface with detailed reporting of duplicates and efficient scanning of large folder structures.

**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.

## Education

**Chaudhary Charan Singh University**, BCA, Uttar Pradesh, India Jun 2020–Jun 2023

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