

SHAIK ASHFAQ

Bengaluru, India — +91 9177 880 515 — shaikashfaqs250@gmail.com

[LinkedIn](#) — [GitHub](#) — [Portfolio](#)

Professional Summary

Results-driven **Backend Engineer** with **2+ years** of experience in **scalable microservices, distributed systems, and real-time data processing**. Expertise in **Kafka, Redis, Python, TypeScript, and NestJS**, ensuring high-performance API development with **optimized database queries, caching strategies, and event-driven architectures**. Proven ability to **reduce API response times by 40%** (from **350ms to 210ms**) and manage **1M+ requests daily** with **99.9% uptime**. Passionate about **Web3, blockchain development, and smart contract security**. Currently expanding expertise in **Solidity, Foundry, and Web3 DevOps** through Cyfrin courses.

Technical Skills

- **Programming Languages:** Python , TypeScript , JavaScript , Java , Solidity (Learning)
- **Backend Technologies:** Node.js, Express.js, NestJS, Flask, Kafka, Redis, gRPC, RESTful API Design
- **Databases:** MongoDB, PostgreSQL, SQLite, NoSQL, Query Optimization, Database Indexing
- **System Design:** Microservices Architecture, Event-Driven Systems, Caching Strategies, Load Balancing
- **DevOps & Tools:** Docker, Kubernetes, CI/CD, Git, Postman, Studio 3T, pgAdmin
- **Blockchain:** Web3.js, Ethers.js, Foundry, Smart Contract Development, DApp Architecture

Professional Experience

Backend Engineer

Chingari, Bengaluru

October 2023 – Present

- Designed and optimized **10+ scalable microservices** using **Python, NestJS, and Node.js**, reducing system latency by **35%**.
- Integrated **Kafka and Redis** for real-time data streaming handling **50K+ messages/min** with distributed caching reducing database load by **40%**.
- Architected **high-throughput RESTful APIs** with **load balancing**, ensuring **1M+ daily requests** and **99.9% uptime** across a **multi-node cluster**.
- Automated **data workflows and backend operations** using Python scripts and cron jobs, reducing manual intervention by **60%** and saving **15+ work hours weekly**.
- Refactored and optimized **complex SQL queries**, reducing execution time by **45%** and improving user experience for **50K+ daily active users**.
- Implemented **Web3 integration prototype**, connecting traditional backend systems with blockchain technologies to explore decentralized features.

Backend Developer

ARBOTECH Solutions Pvt Ltd, Hyderabad

January 2023 – September 2023

- Built **scalable backend services** with **Node.js, Express, and MongoDB** supporting **200K+ daily users** across **3 client applications**.
- Developed secure **authentication & authorization** systems using JWT and OAuth, reducing security vulnerabilities by **80%** based on internal audit.
- Integrated **Redis caching layer and optimized SQL queries**, reducing API latency from **500ms to 180ms** for critical endpoints.
- Improved **backend performance** by implementing **rate limiting and pagination**, handling **3x traffic spikes** without service degradation.
- Researched **blockchain integration possibilities** for secure data verification and explored potential for **tokenizing digital assets** within existing platforms.

Key Projects

- **Real-time Data Processing System:** Built an **event-driven architecture** using **Kafka and Redis** processing **2TB+ daily data**. Developed **5 microservices** in **NestJS and Node.js** with **auto-scaling capabilities**, improving system **throughput by 300%** and reducing **data processing latency** from **minutes to seconds**.

- **Automated Data Management System:** Designed a **high-concurrency REST API** with **Python** and **MongoDB** handling **500+ concurrent connections**. Implemented **database sharding** and **automated updates with cron jobs**, reducing manual work by **85%** and database query time by **60%**. Led a **team of 3 developers** to implement this solution.
- **E-Commerce Backend System:** Engineered a **secure authentication system** with **multi-factor authentication** reducing account breaches by **95%**. Optimized **database queries** and **implemented 3-layer caching strategy**, reducing page load times from **2.5s to 0.8s** and improving conversion rates by **25%**.
- **AstroLive - Web3 Integration Project:** Developed a **proof-of-concept** for integrating blockchain technology with streaming platforms. Implemented **basic smart contracts** using Solidity and connected frontend applications with Web3.js. Created a **token-based reward system** to improve user engagement and platform stickiness.

Education

B.Tech in Computer Science Engineering

JNTUA College of Engineering Pulivendula, India

2017 - 2021

CGPA: 8.2/10

Relevant Coursework: Distributed Systems, Database Management, Data Structures & Algorithms, Cloud Computing

Certifications & Professional Development

- **Foundry and Smart Contract Security** - Cyfrin Updraft (Ongoing)
- **Full Stack Developer** - Next Wave (2022)
- **Web3 Development Fundamentals** - Cyfrin Updraft

Additional Information

- **Languages:** English (Fluent), Hindi (Proficient), Telugu (Native)
- **Technical Achievements:** Reduced infrastructure costs by 30% through optimized resource utilization
- **Soft Skills:** Problem-Solving, Technical Leadership, Agile Development, Cross-Team Collaboration
- **Professional Interests:** Blockchain Technology, Smart Contract Development, Decentralized Applications, Scalable Architecture
- **Availability:** Ready to join immediately