Anjanay Raina

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SUMMARY

Backend Developer with 2+ years of experience designing and deploying high-performance, fault-tolerant applications. Expertise in building robust microservices with Python (FastAPI, Flask), optimizing system throughput, and decreasing API latency by 3x. Proficient in applying advanced concurrency models, cloud-native technologies (Docker, Kubernetes), and resilient design patterns to solve complex data challenges.

WORK EXPERIENCE

NatWest Group | Backend Developer July 2024 – Present
- Currently architecting and building the new **ISV Signature Matching microservice** from scratch, owning the complete development lifecycle from design to deployment on a cloud platform.
- On a prior project (IDRecs), engineered a fault-tolerant **recovery mechanism** to ensure zero state loss during service interruptions for critical data processing jobs.
- Implemented complex business logic modules (**Rebate, Negative Ageing, Contra**) and led **code reviews**, mentoring junior developers on modern best practices.
- Optimized API endpoints for concurrent HTTP requests using Python's **multithreading**, decreasing response times by **3x** and significantly boosting data processing throughput.

Zus Network | Backend Consultant March 2024 – July 2024
- Designed and implemented a comprehensive test suite in **Go** to automate scenario testing, regression checks, and continuous integration for core backend services.
- Audited the project's **Solidity** codebase, identifying 5+ critical vulnerabilities and mentoring the development team on secure coding best practices.

DLT Labs | Student Researcher January 2023 – July 2023
- Researched and developed a **Two-Layered Blockchain Architecture** using **Hyperledger Fabric** to reduce mobile theft, achieving a **100× faster** resolution time.
- Authored and submitted a **Research Paper** to **IEEE ANTS** detailing system guarantees and performance benchmarks.

PROJECTS

JobSleuth (Automated Job Aggregation Platform) Backend Github Frontend Github Website
- Architected and deployed a full-stack platform that processes **5,000+ job postings daily** from 10+ real-time sources, serving over **200+ registered users**.
- Built a scalable data ingestion pipeline in Python using **Telethon** and **aiohttp** to concurrently scrape job postings, reducing data collection time by **90%**.
- Implemented a CI/CD pipeline using **GitHub Actions** to automate testing and linting on every commit, ensuring code quality and stability.

Middle Earth AI (Distributed Strategy Game) Github Website
- Architected a system for a distributed game serving over **500+ players**, with a core engine in **JavaScript**, on-chain programs in **Rust**, and tooling in **Python**.
- Developed critical game tooling in **Python**, including the procedural map and boundary generator (using NumPy) and a comprehensive test suite.
- Engineered high-performance, on-chain state management programs in **Rust**, optimizing data structures to reduce transaction costs by **30%**.

SKILLS

Programming Languages	Python, Golang, Rust, Java, SQL, Solidity, JavaScript, TypeScript
Frameworks & APIs	FastAPI, Flask, Spring, REST APIs, SOAP, Pytest, Pandas, Numpy, ReactJS
Databases & Cloud	MongoDB, PostgreSQL, MySQL, NoSQL, Elasticsearch, Kafka, GCP, Azure, Git
DevOps & Architecture	Docker, Kubernetes, CI/CD, Jenkins, Containerization, MVC, Agile
Core Competencies	System Design, Performance Tuning, Distributed Systems, Code Auditing

AWARDS AND POSITIONS OF RESPONSIBILITY

Peak Hackathon Winner July 2024
Achieved **2nd place** in Peak Hackathon organized by Mantra Chain.

Aptos Winter School IIT Bombay December 2023
Selected among **60 students in India** for blockchain winter school.

EDUCATION

Indraprastha Institute of Information Technology, Delhi *January 2021 – July 2024*
B.Tech (Computer Science & Biosciences)