Rishu Raj Sinha

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PROFESSIONAL SUMMARY

Software Engineer with 1.5+ years architecting scalable backend systems and network infrastructure. Expertise in Python, Golang, and Django delivering high-impact solutions across fintech and cybersecurity domains.

WORK EXPERIENCE

- **Software Development Engineer | Wealthy, Bangalore** — October 2025 – Present
  - **Backend Systems:** Architected microservices using Golang, Django, and FastAPI orchestrating 10,000+ daily transactions across Mutual Funds, PMS, and Fixed Deposits with 99.95% accuracy
  - **Automated Reporting:** Spearheaded analytics pipeline for 5+ investment schemes, reducing manual work by 80% and delivering real-time insights to 2,000+ investors
  - **GraphQL APIs:** Engineered APIs serving 50,000+ monthly queries across 3 products, cutting response latency by 45% and eliminating 60% data over-fetching
  - **Performance Optimization:** Refactored PostgreSQL indexing and deployed Redis caching, accelerating retrieval by 70% and compressing report generation from 5 minutes to 30 seconds

- **System Development Engineer | COSGRID Networks, Bangalore** — April 2024 – October 2025
  - **API Development:** Built RESTful APIs for Zero Trust Network Access application using Python and Golang, implementing OAuth 2.0 authentication with 99.9% uptime serving 100+ enterprise clients
  - **Scalability:** Designed log aggregation system with pagination managing 1M+ monthly entries, integrated Django-RQ with Redis for async processing, boosting throughput by 30%
  - **Network Security:** Provisioned multi-tenant filtering with RBAC across 500+ users, configured Firewall rules, established IPSec tunnels, and administered WireGuard VPN on Linux
  - **Data Pipeline:** Constructed ETL pipeline using FluentBit and Logstash processing 500GB+ daily data into Elasticsearch, created dashboards reducing threat detection by 35%
  - **DNS & Proxy:** Deployed PowerDNS with Lua scripts achieving 40% threat reduction, configured Squid proxy for traffic inspection
  - **Real-time Communication:** Implemented WebSocket channels for live streaming, programmed Electron IPC protocols, connected Kafka for event processing

- **Software Development Intern | CREATOSAURUS & Hackveda** — 2023
  Full-stack MERN development optimizing MongoDB pipelines (40% faster), Python automation eliminating 30% manual tasks, API integrations boosting engagement by 25%

PROJECTS

- **CodeMeet - Technical Interview Platform | Socket.io, WebRTC, React.js, Node.js** — **Live | GitHub**
  Launched video platform with code sandbox supporting 50+ daily interviews, implemented WebRTC streaming with collaborative coding
- **LocalConnect - Service Marketplace | React.js, Node.js, MongoDB, Express.js** — **GitHub**
  Created marketplace connecting local service providers (cooks, painters, tutors) with customers through professional profiles

TECHNICAL SKILLS

- **Programming Languages:** Python, Golang, JavaScript (ES6+), C++, SQL, Lua, PowerShell, HTML5, CSS3
- **Backend Frameworks:** Django, Django REST Framework, FastAPI, GraphQL, Node.js, Express.js, RESTful APIs, Microservices
- **Databases & Caching:** PostgreSQL, MongoDB, Elasticsearch, MySQL, Redis, Query Optimization, Indexing
- **Message Queues:** Apache Kafka, RabbitMQ, Redis Pub/Sub, Django-RQ, Celery, Event-Driven Architecture
- **DevOps & Cloud:** Docker, Kubernetes, Linux (Ubuntu/CentOS), AWS (EC2, S3, RDS), Git, CI/CD, Jenkins
- **Network & Security:** IPSec VPN, WireGuard, PowerDNS, Squid Proxy, OAuth 2.0, JWT, RBAC, Firewall Config
- **Data Engineering:** FluentBit, Logstash, Kibana, OSQuery, ETL Pipelines, Real-time Analytics
- **Real-time Technologies:** WebSockets, Socket.io, WebRTC, Electron IPC, Server-Sent Events
- **Frontend:** React.js, Redux Toolkit, TypeScript, Material-UI, Responsive Design

EDUCATION

Bachelor of Technology in Computer Science Engineering | Rajiv Gandhi Institute of Petroleum Technology, Uttar Pradesh, India — 2020 - 2024
CGPA: 8.03/10.0

ACHIEVEMENTS

Solved 350+ LeetCode Problems | IIT-JEE Advanced 2020 (Top 2% Nationally) | ONGC Merit Scholarship 2020-21 | Meta Hacker Cup 2022 Round 1