

Satyam Kumar Chourasiya

Senior Backend Engineer | Scalable Systems | Cloud Deployment | Python & FastAPI Expert

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SUMMARY

Senior Backend Engineer with over 6 years of experience in designing scalable backend systems and cloud deployment, expert in Python and FastAPI. Key achievements include leading a team of 5 engineers to build Qatalyst, an AI-powered market research platform processing millions of data points, and developing an advanced search system with Elasticsearch that boosted data retrieval accuracy by 30%. Seeking a Senior Backend Engineer position, where my scalable backend system design and cloud optimization skills will support your mission of powering intelligent agent workflows and AI-native applications.

SKILLS

Python, Django, FastAPI, Flask, REST, GraphQL, AWS (Lambda, EC2, S3, SQS, SNS, API Gateway, CloudWatch, DynamoDB, RDS, IAM, ECR, ECS, Step Functions), GCP, PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Docker, Git, CI/CD, Terraform, Serverless, Microservices, Event-Driven Architecture, Message Queues (Kafka, RabbitMQ), OAuth2, JWT, WebSockets, Celery, AsyncIO, Nginx, Unicorn, Unit Testing (PyTest, Unittest), Logging, Monitoring, Load Balancing, Scalability, High Availability, API Rate Limiting, Distributed System, Caching, Security Best Practices, Design Patterns, System Design, RESTful APIs, Redis

EXPERIENCE

Senior Backend Engineer

Entropik

08/2021 - Present Bangalore, India

- Led a team of 5 developer to developed *Qatalyst*, an AI-powered market research platform, using Python (FastAPI), AWS microservices, and event-driven architecture to process millions of data points.
- Engineered a Retrieval-Augmented Generation (RAG) system using LangChain and open-source LLMs, improving insights generation by 25%, and added a conversation history layer to optimize repeated queries.
- Designed a hybrid semantic + keyword search engine with Elasticsearch, increasing data retrieval accuracy by 30%.
- Reduced media processing latency by 90% through asynchronous task queues (SQS, workers) and serverless optimization, achieving 4x throughput improvement.
- Built a scalable, event-driven video processing pipeline (Lambda, Step Functions, SQS), reducing data processing time by 90%.
- Developed a PII redaction system for video content, ensuring compliance and minimizing risk exposure.
- Led the development of AffectLab Insights (Django), a media survey platform that boosted user engagement by 20% and delivered actionable shopper behavior insights.
- Evanglized software development best practices across the entire organization to ensure clean, maintainable, and scalable systems.
- Spearheaded a cost optimizations agenda by fine-tuning our in-house OpenSearch cluster, resulting in a 25% reduction in server costs.
- Reduced data retrieval times by 40% by optimizing database query structures.
- Managed 50+ microservices for large-scale web applications.
- Optimized database queries, reducing system downtime by 20% through efficient data caching strategies.

Associate Software Engineer

Teamlease

07/2019 - 08/2021 Bangalore, India

- Automated email workflows with chatbot APIs, slashing response time to under 5 minutes and increasing efficiency by 70%.
- Refactored legacy TL-Connect modules (attendance, payroll), reducing errors by 20% and boosting adoption by 10%.
- Increased team productivity by 20% by implementing efficient workflows and automating repetitive task.
- Achieved 30% faster data processing by optimizing database queries in SQL Server.
- Reduced server response time by 10% by refactoring legacy code.

EDUCATION

Master of Computer Applications (MCA)

Vellore Institute of Technology

2016 - 2018 Chennai

Bachelor of Information Technology (B.IT)

Ranchi College

2013 - 2016 Ranchi