Aakarshak Shotri

SDE2

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PROFILE SUMMARY

- Built microservices, AI streaming agents, large-scale data pipelines, and scalable backend systems.
- Designed & deployed microservices and optimized infra on AWS/GCP/On-prem.
- Strong in system design, performance optimization, and end-to-end delivery.

PROFESSIONAL EXPERIENCE

Teleperformance

SDE2 (Aug-2024 - Present)
- Designed an AI streaming agent that aligned technical implementation with business goals.
- Built a data analytics pipeline enabling real time and near real time insights.
- Created CI/CD workflows to cut deployment time and improve release stability.
- Migrated high-traffic monolith to async microservices, improving throughput and latency.
- Enhanced system architecture to improve scalability and reliability across distributed services.

Syncrope

Associate Software Engineer (June-2022 - Aug-2024)
- Led on-prem platform deployments and ops, improving reliability and recovery time.
- Implemented a custom API gateway, unifying routing for internal microservices and software tools.
- Developed backend services and used background workers for long-running scheduled work.
- Integrated SSO and chat-based release/error alerts, improving deployment visibility.
- Migrated chatbot messaging as a standalone socket-based microservice, results in lowering latency.
- Migrated legacy ETL to orchestration DAGs, automating router activation and policy updates.

Software Engineer Trainee (Jan-2022 - June-2022)
- Built component-driven UIs with typed interfaces and predictable state flows.
- Wrote unit and component tests with mocks and coverage thresholds, catching regressions early.
- Implemented RESTful endpoints and middleware; integrated async pub/sub and event-triggered functions.
- Containerized services and deployed to a dev/staging cluster using declarative manifests.
- Designed database schemas across SQL/NoSQL stores with migrations and query optimization.

SKILLS

- **Languages**: Python, Go, Elixir, Java, JavaScript/TypeScript, SQL
- **Backend**: FastAPI, Django, Litestar, REST, WebSockets, Celery, async I/O
- **Frontend**: React, Next.js, Redux, Zustand
- **AI/ML & Agents:** LLMs, Pipecat (streaming agents), LangChain, LangGraph, RAG, PyTorch, TensorFlow, NLTK, TTS/STT pipelines, Langfuse, Braintrust (tracing)
- **Real-time & Streaming:** WebRTC (Daily), streaming/parallel pipelines, event-driven processing
- **Data & Orchestration**: Snowflake, DBT, Airflow (DAGs), Apache Spark (PySpark), Apache Flink, Apache Kafka
- **Cloud & Infra:** AWS (EC2, S3, Lambda, SNS/SQS, EKS, Fargate, Kinesis), GCP (Cloud Run, Cloud Load Balancer, Cloud Composer, Cloud Storage), Kubernetes, Docker, Traefik, Vault, Nginx, Flink
- **CI/CD & Observability:** Argo CD, Jenkins, Git, Bitbucket, ELK, Prometheus, Grafana, Sentry, New Relic, OpenTelemetry (OTLP traces/logs), Kubernetes dashboards
- **Auth & Payments:** Okta SSO, OAuth2/JWT, Stripe (webhooks, idempotency)
- **Datastores & ORM:** SQL & NoSQL, Redis, Vectara, SQLAlchemy

EDUCATION

Lj Institute of Engineering & Technology   2020 – 2024
Btech - Electronics And Communications   CGPA 9.78