Shuvojit Sarkar

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WORK EXPERIENCE

Svasth Life Pvt. Ltd. (healthi.in)   **Jan. 2022 – Present**
Software Development Engineer II   *Bangalore, KA*

- **Built** a configuration-driven BFF layer using Node.js (TypeScript), Kafka, and GraphQL to connect event-based microservices, making our system more resilient to third-party delays and forming the core of our architecture.
- **Set up and maintained** infrastructure for APISIX, Postgres, Kafka, and Redis, helping the team scale reliably as traffic and feature complexity grew.
- **Created** multi-stage environments and CI/CD pipelines with Docker, Kubernetes, Jenkins, and Python, making deployments faster and easier across teams.
- **Tuned** Kafka consumers and broker settings to handle higher concurrency, improving event processing speed as our system scaled up.
- **Built and maintained** an internal admin app with Flutter, giving non-engineering teams better tools and reducing the number of manual support requests.
- **Jumped in** to help the mobile front-end team when needed, working on feature updates and bug fixes to keep product development moving.
- **Designed** an async outbound monitoring system to catch third-party outages faster, helping us respond quicker and supporting API usage audits and billing disputes.

AppnosticWorx   **November 2020 – December 2021**
Full Stack Developer   *Remote*

- **Collaborated** with clients to clarify requirements and shape technical solutions aligned with business and engineering goals.
- **Designed and built** modular API clients and service-layer libraries using **RxJS (Angular)** and **custom hooks (Next.js)**, enabling more UI-focused developers on the team to integrate APIs cleanly and consistently.
- **Developed** serverless APIs with **AWS Lambda**, **GraphQL**, and **Node.js** to deliver scalable backend services with minimal operational overhead.
- **Implemented** authentication with **Firebase Auth**, improving security and simplifying user access management across applications.

TechPro Studio   **December 2018 – October 2020**
Python Developer   *Kolkata, WB*

- **Rewrote and migrated** a **legacy PHP Monolith** codebase to Serverless Python, deploying it on **AWS Lambda** for improved scalability and maintainability.
- **Identified and refactored** inefficient MySQL queries and indexes, reducing query latency by up to **50%.**
- Replaced disparate internal authentication systems with **AWS Cognito**, unifying login processes across all internal applications.
- Designed and implemented a **Python**-based **intrusion detection algorithm**, leveraging **historical user data** to monitor and flag unusual login patterns in internal applications.
- Optimized a sequential job processing system by developing a distributed solution, improving job execution speed by **83%.**

PROJECTS

- **webhook-load-tester**: A tool to load test asynchronous webhook APIs by defining tests in a simple, declarative way. Good for simulating lots of webhook traffic without much setup. **Github**

- **lombok-to-json**: It's a simple tokeniser implementation that converts @Lombok-generated toString() output from Java classes into JSON format for easy integration and debugging. Provided as a online tool, CLI tool and golang package. **Github Demo**
- **kafka-sync-proxy**: A web service that lets you make HTTP calls that get sent into Kafka and then wait for a reply on another topic. Makes Kafka feel a bit more like request/response. **Github**
- **dirseq**: A fast CLI tool that gives you unique sequential numbers inside each directory. Handy for naming files or keeping things organized without conflicts. **Github**

SKILLS

- **Languages**: Java, Python, Go, Typescript, Javascript, SQL, GraphQL, Dart, HTML+CSS
- **Frameworks**: Spring Boot, Nestjs, Next.js, React, Angular, Django, Flask, Laravel
- **Database**: Postgres, Redis, MySQL, MongoDB, FireStore, DynamoDB
- **Messaging**: Kafka, Amazon SQS, Pusher.io
- **Tools**: Git, Docker, Kubernetes, Jenkins, Jira
- **Servers & Gateways**: APISIX, Apache2, Nginx, AWS API Gateway
- **Cloud**: AWS, Azure, Firebase

EDUCATION

Techno India   **June, 2018**
Bachelor of Computer Applications (BCA)   *Kolkata, West Bengal*

Maria's Day School   **March, 2015**
CISCE (10+2)   *Howrah, West Bengal*