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Contact

- paul.supriyo.paul@gmail.com
- +91 8340265344
- Portfolio
- LinkedIn

Skills

Languages & Frameworks

Python, Bash, FastAPI, gRPC, LangChain, Java, C++, PHP

Databases & Data Stores

PostgreSQL, SpannerDB, MongoDB, ArangoDB, Elasticsearch, InfluxDB, Redis, LanceDB

DevOps & Cloud

Docker, Kubernetes, Google Cloud Platform (GCP), Azure DevOps, CI/CD, Ansible, Linux, Travis CI

Data Pipelines & Observability

Apache Kafka, NSQ, ELK Stack, Prometheus, Grafana

AI/ML & System Design

RAG Architecture, LLMs, Vector Databases, Microservices, System Design, Protocol Buffers, NLP

Certifications

System Design

Udemy

Data Structures & Algorithms

Udemy

Protocol Buffers 3
Udemy

AI For Everyone
Coursera (DeepLearning.AI)

Supriyo Paul

Aspiring system architect | Passionate advocate for clean, maintainable code

Summary

My journey in technology began with a deep curiosity for the internet and has evolved into a career dedicated to building robust, scalable, and efficient systems. From architecting high-throughput data pipelines and MLOps platforms to developing full-stack AI applications, I thrive on solving complex problems. I am an aspiring system architect who believes in clean, maintainable code as the foundation of any great product. Throughout my journey, I've balanced my deep focus in technology with a love for creative outlets. I'm an avid anime fan, a proficient cook, and even had a short stint designing and selling stickers. My thinking is often shaped by authors like Yuval Noah Harari and Paulo Coelho, whose works encourage looking at the bigger picture—a principle I apply to both my life and my work.

Experience

Software Engineer
2024.03 - Present
H&M (PLM & Hub Team)

- Developing a configurable, low-code integration platform on GCP to handle complex data flows between the core PLM system and 10+ downstream applications.
- Owning multiple business objects and their associated ETL pipelines, overseeing the entire SDLC from solution design to production hypercare.
- Initiating the design and development of a data-driven unit test suite to improve the reliability of outbound integrations.

Software Engineer
2021.09 - 2024.03
Jio (AI-Center of Excellence)

- Engineered a comprehensive Knowledge Graph platform from the ground up using ArangoDB, Redis, and a high-performance gRPC/Protobuf microservices architecture.
- Spearheaded the performance monitoring, scaling, and refinement of platform services, ensuring high reliability and efficiency for MLOps pipelines.
- Built and managed the complete CI/CD lifecycle on Azure DevOps, deploying services to Kubernetes clusters.

- Mentored and trained three new team members, fostering best practices in code quality and system maintainability.

DevOps Engineer
2019.09 - 2021.09

Ajio (Reliance)

- Founded and led the Tools & Automation team, defining the strategy for operational efficiency during a large-scale microservices migration.
- Architected and scaled a centralized observability platform using ELK and Kafka, processing over 7 billion records daily across 16+ microservices.
- Implemented Prometheus for real-time monitoring and alerting, significantly improving operational stability.
- Automated infrastructure provisioning and configuration management for data clusters using Ansible.

Associate Software Engineer
2017.08 - 2019.09

Deepcompute

- Developed and maintained open-source internal tools and libraries in Python, contributing to a reusable and versatile software ecosystem.
- Engineered and managed data pipelines for log aggregation using NSQ, MongoDB, and InfluxDB.
- Established and enforced CI/CD best practices using Docker and Travis CI, improving code quality and deployment frequency.
- Contributed to an NLP project by building a library to generate word-embeddings using Word2vec.

Education

Bachelor of Engineering, Computer Science
2013 - 2017

Mallabhum Institute of Technology