

Soumik Ghosh

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LinkedIn | Github | Portfolio

PROGRAMMING SKILLS

- **Programming Languages and frameworks:** Python, Golang, Typescript, Java, FastAPI, Flask, Express, GoFiber, Lexical
- **Databases:** SQL (PostgreSQL, MySQL), NoSQL (Redis, MongoDB), VectorDB (ChromaDB, PgVector)
- **DevOps:** Docker, AWS, Git, GitHub Actions, OpenShift

EXPERIENCE

- **Nagarro** Bangalore
Staff Engineer - Full time August 2025 - Present
 - Played a key role in a Java → Node.js service migration, including decommissioning legacy TIBCO-based integration layers, simplifying inter-system communication and improving service maintainability.
 - Assisted in decomposing large Java monoliths into domain-aligned microservices, enabling independent deployments and region-specific scalability across UAE, KSA, UK (London), and India.
- **GrowthX.club** Remote
Senior SDE - Full time May 2024 - August 2025
 - Engineered a job board using **Express (Typescript)**, designing the **Mongodb** schema to manage complex relationships between **4000+** members and **200+** companies.
 - Designed and implemented **RESTful APIs** for a job tracking module, featuring efficient **server-side pagination** and filtering to power a Chrome extension and dashboard, complete with Clevertap and new relic setup for funnel visibility.
 - Built a **real-time collaborative text editor** with a fully functioning version history used by over 2500 members. This system uses the Lexical library by Meta as a base, engineering a state synchronization mechanism to ensure data consistency across concurrent user sessions.
 - Integrated Razorpay Orders and Subscription APIs to launch a secure paywall, automatically issuing user-level access keys and restricting premium product features to paid subscribers.
 - Architected a centralized LLM gateway microservice in Python, implementing provider failover for high availability, token-bucket rate limiting, and granular usage tracking to power all in-house AI features.
- **Onlinesales.ai** Pune
SDE - Full time February 2021 - January 2024
 - Collaborated on designing and implementation of the inventory and SKU system, expanding its reach from large agencies to individual store owners through a new product launch. Prioritized enhancing SKU management functionalities, enabling broader user access, and enhancing campaign and account management features.
 - Designed and implemented a data pipeline to analyze user wallet balances and proactively identify users at risk of balance depletion or with low balances, resulting in a **57% increase in product retention**.
 - Leveraged CleverTap to automate personalized email notifications to targeted user segments, reducing the number of days a user has zero wallet balance by 50% and fostering user engagement.
 - Developed and implemented a Google Business Messages (GBM)-enabled chatbot for **Xiaomi**, facilitating seamless communication between **700 stores nationwide** and their users. Allowing users to receive and respond to messages, access self-service like view real-time stock availability, pricing, ongoing offers.

PROJECTS

- **Shawty** | <https://github.com/Araon/shawty>
 - A robust and self-hosted URL shortener powered by **Node.js**, **MySQL**, and **Redis**, boasts lightning-fast link redirection. Offering support for link expiration, It also integrates analytics for each short link
- **Hydra** | <https://github.com/Araon/Hydra>
 - High-volume task scheduler in **Python** and **Go** with a Scheduler, Coordinator, and Worker components. communicating via gRPC and HTTP, backed by a **PostgreSQL** database for efficient task management.
- **Search** | <https://github.com/Araon/search>
 - A semantic search engine with regularly refreshed data and relevance-based retrieval.

EDUCATION

- **Hooghly Engineering and Technology College** Kolkata, India
Bachelor's Degree in Computer Science and Engineering (B.Tech); CGPA: 8.8/10 Jul 2017 - Aug 2021