

Subhomoy Roy Choudhury

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SUMMARY

Backend-focused Software Engineer with 3+ years of experience designing and shipping low-latency, high-availability APIs and distributed systems. Strong expertise in Python and Golang, building scalable backend services, event-driven pipelines, and production-grade cloud-native systems. Proven ability to own features end-to-end in fast-paced environments.

EDUCATION

Institute of Engineering and Management, Kolkata

Bachelor of Technology in Electronics and Communication; GPA: 9.34/10.0

West Bengal, India

Aug 2018 – July 2022

EXPERIENCE

Mott MacDonald

Digital Engineer

Bangalore, India

September 2024 – Present

- Designed and maintained backend platform services supporting Kubernetes-based DevOps infrastructure.
- Built a Kubernetes operator in Golang to automate project provisioning and namespace lifecycle management.
- Engineered end-to-end automation from ServiceNow to Plural to Kubernetes, reducing request SLA by 80%.
- Provisioned infrastructure using Terraform and managed Azure services including Blob Storage and PostgreSQL.
- Technologies:** Python, Golang, Kubernetes, Terraform, Azure, PostgreSQL

Fynd

Software Development Engineer 1

Bangalore, India

July 2022 – September 2024

- Designed and maintained scalable REST APIs powering the Core Catalog Service for JioMart Partners (B2B).
- Built RBAC-based authentication and authorization systems to enforce secure access control.
- Developed high-throughput product ingestion pipelines using Apache Kafka for low-latency bulk imports.
- Optimized backend queries and caching layers (Redis), improving system performance by 30%.
- Collaborated cross-functionally with product and frontend teams to ship production-ready features.
- Technologies:** Python, NodeJS, Kafka, PostgreSQL, MongoDB, Redis, Nginx

PROJECTS

iLoveGithub | Python, NextJS, Supabase, Docker, CI/CD

May 2025 – Present

- Architected scalable backend services in Python to transform GitHub repositories into AI-powered utilities.
- Designed RESTful APIs with authentication and containerized deployments using Docker.
- Implemented CI/CD pipelines and automated release workflows for production-grade delivery.

linkplant | Python, Jinja, GitHub Actions

November 2025 – Present

- Built a GitHub Action to automate static site generation and deployment using Python and Jinja.
- Designed reusable CI/CD workflows enabling zero-infrastructure hosting.

Proxmox Homelab | Terraform, Kubernetes, Docker, ArgoCD, Tailscale

May 2023 – Present

- Designed and managed Kubernetes clusters using Terraform and GitOps (ArgoCD).
- Implemented containerized workloads with secure networking and automation-first infrastructure practices.

TECHNICAL SKILLS

Backend: Python, Golang, NodeJS, REST APIs, Microservices

Databases: PostgreSQL, MongoDB, Redis

Infrastructure: Kubernetes, Docker, Terraform, Azure, CI/CD, GitOps

Messaging: Apache Kafka