

# Soham Shirke

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## PROFILE SUMMARY

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Computer Engineering student (CGPA: 8.72) who has built backend systems, contributed to startup operations, and led engineering teams. Co-Founded a supply-chain startup incubated at CIBA Vashi (Rs.50K+ revenue); Vice President at Toastmasters, coaching 50+ students over 1.5 years in structured communication. National Hackathon Winner (1st/70+ teams, 12 states, Rs.50,000 prize) for developing a differential-privacy-based cross-bank fraud detection system. Focused on Go-based backend development, concurrent systems, and practical system design.

## EDUCATION

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**G H Rasoni College of Engineering and Management, Pune**  
*B.Tech in Computer Engineering*

2023 – Expected 2027  
CGPA: 8.72

## TECHNICAL SKILLS

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**Languages & Concurrency:** Go, Python (Goroutines, Channels, Worker Pools, Pipeline Architecture)

**Backend & Databases:** REST APIs, PostgreSQL, Session Management, Audit Logging

**Redis Technologies:** RedisJSON, RedisBloom, RediSearch, Streams, Pub/Sub, Sentinel

**Tools & Security:** Git, Cobra, Viper, Cluster, Ollama | HMAC-based Linkage, Differential Privacy, Bloom Filter

## EXPERIENCE

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**Vice President Public Relations & Former Treasurer**  
*Toastmasters International*

Jul 2025 – Present  
Pune

- Spearheaded an intensive coaching program for over 50 students across 1.5 years, culminating in a 40% reduction in public speaking apprehension.
- Edited and published 5 issues of ToastTimes magazine, distributed to all HODs and campus directors, and officially submitted to GHRCEM Nagpur for institutional recognition
- Managed club finances and led PR initiatives, sustaining member engagement across a growing chapter

**Co-Founding Chief Operating Officer**  
*Purecuts — CIBA Vashi Incubatee*

Sept 2024 – Feb 2025  
Pune

- Designed and operated a 3-person supply chain from Pune to Nanded, sourcing barbershop materials at 15% lower cost than local vendors and delivering to 5+ high-volume B2B customers
- Drove Rs.50,000+ in early revenue by replacing unreliable local supply with a consistent, margin-efficient distribution model across a tier-3 city market

## PROJECTS

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**SATARK** | *Python, FastAPI, React* National Hackathon Winner – 1st place / 70+ teams / 12 states, Rs. 50,000 prize (Mar 2026)

- Engineered a privacy-preserving fraud detection system using HMAC-based linkage and graph-based anomaly detection across 5,000+ mock RBI-structured financial transactions, directly addressing fintech fraud vectors.
- Achieved 80% detection accuracy on mock data, with architecture projecting 95%+ on live datasets by surfacing multi-hop money laundering patterns (cycles, smurfing, velocity anomalies) within complex transactional networks without exposing raw customer data.

**ControlPlane** | *Go, PostgreSQL*

- Built a Go application exposing 20+ secure REST endpoints for internal operations, backed by a 9-table PostgreSQL schema to manage structured data.
- Implemented robust backend features including session management, multi-step approval workflows, and tamper-evident audit history, demonstrating capability in building resilient systems and managing complex data relations.

**RedisForge** | *Go, Redis*

- Implemented production-grade patterns across 8 Redis modules (including RedisJSON, RedisBloom, RediSearch, Streams, Pub/Sub), showcasing expertise in distributed memory caches and message brokers for high-throughput systems.
- Sustained 265 ops/sec with zero failures across 752 benchmarked operations, and enforced idempotency via Bloom filter pre-checks for data optimization and integrity, minimizing processing latency.

**ConcurFlow** | *Go, Concurrency*

- Designed a Go-based bounded-concurrency URL processor with a 5-goroutine worker pool, demonstrating capability in building scalable background workers and asynchronous processing tasks.
- Implemented early invalid-input filtering and front-loaded validation before I/O to eliminate wasted goroutine cycles, significantly optimizing resource allocation and minimizing processing latency.

## AWARDS & ACHIEVEMENTS

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**National Hackathon Winner – SATARK (Mar 2026)**

1st place out of 70+ teams across 12 states. Awarded Rs. 50,000 for engineering a cross-bank fraud detection system with differential privacy guarantees – 80% accuracy on RBI-structured mock data, projecting 95%+ on live datasets.