

Harshavardhan P

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TECHNICAL SKILLS

- **Languages & Frameworks:** Java, Spring Boot, Golang, Python, SQL, Angular, REST APIs
- **Infrastructure & Database:** Docker, Kubernetes, Kafka, Solace, Ansible, Nginx, CI/CD, Grafana, Prometheus, Oracle, Sybase, PostgreSQL, MongoDB

EXPERIENCE

- **Citigroup** Chennai, TN
Senior Software Engineer Aug 2020 – Present
 - **FX Trade Processing:**
 - * Architected and delivered a complete ground-up rewrite of a low-latency FX trade processing system, handling 2,000+ requests/second with sub-millisecond p99 latency, serving as a critical path for global FX trading operations.
 - * Built a reconciliation platform synchronizing data across 5+ databases and middleware systems, reducing trade-break investigation time by automating validation and reporting across the full trade lifecycle.
 - Tech Stack: Java, Spring Boot, Apache Ignite, Sybase/Oracle, Solace, Kafka, Git, Kubernetes
 - **Observability Platform Engineering:**
 - * Led org-wide Grafana platform rollout from zero to 500+ dashboards across 50+ teams, owning architecture, deployment, scaling, and onboarding – now the standard observability layer for production services at Citi.
 - * Built custom Grafana administration tooling (dashboard migration, data source management, bulk user provisioning) that cut environment setup time by 60% and eliminated manual ops workflows.
 - * Co-developed a unified observability agent integrating multiple Prometheus exporters into a single framework, reducing per-server agent count by 3x and adopted by 30+ application teams.
 - Tech Stack: Golang, Ansible, Prometheus, Grafana, PostgreSQL, Docker
 - **Developer Tooling:**
 - * Developed an automated Chocolatey package creation framework, reducing software packaging time by 30% and accelerating delivery cadence across the developer tools team.
 - * Built an internal developer portal (Angular + Python) enabling 1,000+ engineers to discover and compare approved IDEs, language runtimes, and toolchains – reducing onboarding setup time.
 - Tech Stack: Python, Angular, Nginx, MongoDB, REST APIs
- **GingerMind.AI** Bangalore, KA
Software Engineer Intern Oct 2018 – July 2019
 - **Accessibility & Computer Vision:**
 - * Built a multilingual PDF reader (10+ languages) for the Eye-D accessibility app, improving daily usability for visually impaired users.
 - * Implemented anti-tampering and code obfuscation to protect the Android app from reverse engineering.
 - Developed real-time lane departure warning algorithm using OpenCV for the Eye-D smart glass.
 - Tech Stack: Android, Java, Python, OpenCV

EDUCATION

- **Georgia Institute of Technology (OMSCS)** Remote
Master of Science in Computer Science Aug 2022 – Dec 2025
- **SSN College of Engineering** Chennai, TN
Bachelor of Engineering in Computer Science Aug 2016 – July 2020

PROJECTS

- **Zinger E-Commerce Framework:** Open-source backend framework for building e-commerce marketplaces (modeled after Swiggy/Zomato). 300+ GitHub forks, adopted by developers in India and the Philippines.
- **Kumki Obfuscator:** Android security tool implementing data-flow and control-flow obfuscations to defend APKs against decompiler-based static analysis attacks.
- **Distributed KV Store:** Sharded, fault-tolerant key/value store implementing PAXOS consensus for leader election and linearizable request ordering across distributed nodes.