

SHASHANK MAHAJAN

Senior Full-Stack Engineer

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PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 5+ years of experience specializing in high-performance backend architectures, microservices, and security-first engineering. Expert in GoLang, React, and Cloud-native systems (GCP), with a deep focus on applying Data Structures & Algorithms (DSA) to solve complex scalability and concurrency challenges. Proven track record in developing enterprise-grade platforms for Next-Gen HSM management and automated cloud provisioning for 50+ global enterprise clients.

CORE TECHNICAL COMPETENCIES

- Languages & Frameworks:** GoLang (Proficient, 4+ yrs), React.js (Proficient, 4+ yrs), Microservices & gRPC.
- Security & HSM:** HSM Lifecycle & IAM (Expert, 4+ yrs), OAuth2 & API Security (Expert, 4+ yrs), CTF Events (Skilled).
- Cloud & DevOps:** Docker/Podman (Skilled, 4+ yrs), GCP (Skilled, 3+ yrs), CI/CD (GitLab/Bamboo).
- Databases & Tools:** MySQL (Skilled, 3+ yrs), REST APIs, Unit Testing (Builder Pattern).

PROFESSIONAL EXPERIENCE

Thales DIS | Noida, India

Senior Software Engineer | *January 2024 – Present*

Lead Developer – HSMs Manager

- Context:** Building a unified management platform for Next-Gen Thales HSMs (Started May 2025).

- **Technical Approach:** Architecting a centralized GoLang/React platform for end-customers to interact with Next-Gen HSMs. Providing a single interface for HSM lifecycle tasks including **Key Management, IAM, Cryptography**, and **Onboarding**.
- **Impact:** Successfully integrated OAuth2 compliance, reducing client onboarding time by 80% and simplifying complex hardware interactions.

Senior Engineer – Infrastructure Optimization

- **Optimization:** Built a Go-based automation framework using the **Builder Design Pattern**, reducing test creation time by 50% and improving reliability across 3 development teams.
 - **Impact:** Accelerated CI/CD pipelines, reducing deployment cycles from 120 minutes to 20 minutes (83% improvement).
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Thales DIS I Noida, India

Software Engineer | February 2021 – May 2025

Core Developer – Gambit Service Broker

- **Problem:** Inefficient, manual provisioning of HSMs in cloud environments (AWS/GCP/Azure).
 - **Technical Approach:** Developed an OSB-compliant microservice enabling automated, cloud-native HSM allocation. This was the primary project focus from 2021 until May 2025.
 - **Impact:** Successfully adopted by 50+ global enterprise clients; reduced manual setup time by 80%.
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KEY PROJECTS & INNOVATION

DISCREET Platform (Web3 & Blockchain)

- **Role:** Backend & Security Architect
 - **Technical Approach:** Engineered a secure wallet integration and transaction layer for a Danish cryptocurrency startup.
 - **DSA:** Applied **Merkle Trees** for efficient transaction verification, ensuring data integrity for 100k+ users.
 - **Impact:** Facilitated \$10M funding raise through secure, high-concurrency IOU token distribution.
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EDUCATION

- **Bachelor of Technology (B.Tech) in IT** | Amity University, Noida (2021)

- Specialized in Cryptography and Distributed Systems.
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ACHIEVEMENTS & CERTIFICATIONS

- **US Patent Filed (Nov 14, 2025)**: "SYSTEM AND METHOD FOR REMOTE PERSONAL IDENTIFICATION NUMBER (PIN) MAILING" (USA).
- **Cybersecurity**: 5th Place (2025), 4th Place (2024), 3rd Place (2023) – Thales DIS CTF Cybersecurity Challenge.
- **Thales Spot Award (2023)**: "Xtra Miler" recognition for innovative problem-solving in security infrastructure.
- **DSA Certification**: GeeksForGeeks Professional Certification in Advanced Data Structures & Algorithms.