SHASHANK MAHAJAN

shashankmahajan99@gmail.com | +91 8178528246 | Delhi, India LinkedIn: shashank-mahajan-7baa1979 |
Portfolio: shashankmahajan.netlify.app

Work History

Senior Software Engineer, Thales DIS, Noida, India   *January 2024 to current*

- Led the development of the HSMs Manager platform using React and GoLang to centralize lifecycle management and security operations for enterprise clients.
- Achieved an 83% reduction in deployment time by engineering Python-based automation for Cloud GCP Deployments and optimizing Gitlab CI/CD pipelines.
- Integrated SAST/DAST tools including Blackduck, Coverity, SonarQube, and ZAP into the CI/CD pipeline to automate vulnerability management and secure coding.
- Architected OAuth2 compliance for REST APIs and implemented Swagger/OpenAPI to enable secure and seamless third-party integrations.

Software Engineer, Thales DIS, Noida, India   *February 2021 to December 2023*

- Engineered React-based management interfaces for hardware provisioning and automated lifecycle tasks using Docker to reduce manual setup time by 80%.
- Developed the Cloud-HSM Provisioning Broker using GoLang and MySQL which enabled automated cloud provisioning for 50+ global enterprise clients.
- Implemented comprehensive REST API suites adhering to Open Service Broker specifications to provide seamless integration with Google Cloud Platform.

Projects

HSMs Manager (Next-Gen Unified Platform)

- Unified HSM management and achieved 80% faster client onboarding by architecting OAuth2-compliant integration flows and standardizing IAM interfaces.
- Built a cloud-native microservices architecture using GoLang and React to secure critical cryptographic operations for multi-tenant access.

Cloud-HSM Provisioning Broker (Automated Infrastructure)

- Automated HSM provisioning across Google Cloud environments by engineering an OSB-compliant microservice using GoLang and MySQL.
- Reduced manual configuration time by 70% for enterprise clients by implementing a broker pattern for cross-cloud resource abstraction.

Patents

- US Patent Pending (2025): Architected "System and Method for Remote PIN Mailing"

Technical Competencies

- Languages & Frameworks: GoLang, React.js, Node.js, TypeScript, gRPC, Microservices, Web3.js, REST APIs, GraphQL
- Security & DevOps: SAST/DAST (SonarQube, Blackduck, Coverity, ZAP, OWASP), HSM, OAuth2, GCP, Docker, Kubernetes, CI/CD
- Tools & Databases: MongoDB, MySQL, Redis, PostgreSQL, Distributed Systems, Algorithms & DSA, Git, Terraform, Swagger

Awards & Recognition

- Thales DIS CTF Global Finalist (2023-2025): Ranked 3rd, 4th, and 5th globally in the annual Capture The Flag security competitions.
- Thales Spot Award (2023): Recognized for innovative security infrastructure solutions and Xtra-Mile contribution to the team.

Education & Certificates

- B.Tech. in Information Technology, Amity University, Noida, Graduated 2021
- DSA & Advanced Algorithms Professional Certification, GeeksForGeeks, 2019