APOORV AGNIHOTRI

AI Solutions & Enterprise Architecture

apoorvaagnihotri9@gmail.com | LinkedIn | GitHub | snapseek.ai

Customer-facing engineer with **6+ years of experience** across enterprise financial technology, distributed systems, cloud infrastructure, and independent AI product development. Translates customer requirements into **practical solution architectures and working software**, builds integrations across complex platforms, and owns application delivery from design through deployment. Combines hands-on engineering with technical discovery, proof-of-concept development, technical demonstrations, and end-to-end product execution.

EXPERIENCE

SnapSeek.ai | Founder & Software Engineer

December 2025 - Present

AI Product Architecture & Delivery: Independently designed and developed **three native macOS AI applications**, owning application architecture, model integration, product experience, release engineering, and distribution across speech recognition, semantic search, and generative audio.

Hush | On-Device Dictation: Built and publicly released a **Swift/SwiftUI** application integrating Apple Speech, Apple Intelligence, and macOS accessibility APIs for dictation, text refinement, and system-wide insertion; implemented original-transcript fallback, local history, and signed application updates.

Still | Semantic Retrieval: Architected a public-preview visual search application combining **EmbeddingGemma, Apple Vision OCR, and file metadata** for local image and video discovery. **Chorus | Generative Audio:** Developed a local text-to-speech studio using Kokoro and Chatterbox, configurable voices, and WAV export.

R3 | Solutions Engineer

February 2023 - November 2025

Digital Currency & Core Banking Integration: Owned **low-level design** for integration components and contributed to high-level design for Corda microapplications. Built Kotlin workflows connecting digital-currency settlement and core banking systems through **NATS messaging and REST APIs**.

Privacy-Aware Securities POC: Worked directly with enterprise stakeholders alongside a Solutions Architect to translate distribution requirements into a working **Corda/Kotlin proof of concept**. Implemented custody-hierarchy traversal and controlled data visibility, iterated on the solution, and led the final technical demonstration.

Digital-Assets Cloud Delivery: Took **primary technical ownership** of application development and AWS deployment. Designed private **VPC/EC2 infrastructure**, provisioned environments with Terraform, and configured private connectivity to the client environment.

Veritas Technologies | Software Engineer

January 2020 - January 2023, including internship

NetBackup SaaS | Service Orchestration: Joined the initial **10-member engineering team** building a cloud-native Backup as a Service offering. Developed **Java/Spring Boot** services and API integrations connecting SaaS workflows with enterprise backup capabilities for virtual machine and PostgreSQL protection.

Distributed Systems & Engineering Collaboration: Worked with **Kafka and RabbitMQ** in an AWS/Azure Kubernetes environment; contributed to early platform decisions, guided **three contractors**, and participated in technical interviews.

NetInsights Console & Data Insight: Developed appliance-visibility backend services using **MongoDB and MySQL**; contributed Spring Boot/Kafka functionality and data-processing integrations for enterprise data analytics during a six-month internship.

TECHNICAL SKILLS

Solution Architecture & Delivery: Requirements Discovery, Solution Design, HLD/LLD, Integration Boundaries, API Design, POC Development, Technical Demonstrations

Languages & Frameworks: Java, Kotlin, Swift, JavaScript, Node.js, Spring Boot, SwiftUI, REST APIs

Cloud & Infrastructure: AWS (VPC, EC2), Azure, Terraform, Kubernetes, Docker, CI/CD, Git

Enterprise & Distributed Systems: R3 Corda, NATS, Kafka, RabbitMQ, Microservices, Event-Driven Architecture, Service Orchestration

Applied AI & Native Applications: Apple Speech, Apple Intelligence, EmbeddingGemma, Vector Embeddings, Semantic Search, Apple Vision OCR, Local Inference, Kokoro, Chatterbox

Data & Observability: PostgreSQL, MySQL, MongoDB, Prometheus, Grafana

EDUCATION

B.Tech, Computer Science | SRM University | 2020