

ANMOL GUPTA

Founding technical generalist making product bets, stitching systems together, and shipping across multiple ventures simultaneously
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EDUCATION

Indiana University, Bloomington, US

MS in Computer Science

Aug 2021 - May 2023

SRMIST, Chennai, India

B.Tech in Information Technology

Aug 2016 - May 2020

- Exchange Student · Sungkyunkwan University · Seoul, South Korea · Aug - Dec 2018
- Research Assistant · Asia University · Taichung, Taiwan · June - Aug 2019

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, F#, Node.js

Databases: PostgreSQL, MySQL, MongoDB, Redis

Frameworks: Django, Flask, Express, NestJS, Spring Boot, Next.js, Commander.js, React, XState

Tools & Platforms: GCP, Kubernetes, OpenAI Realtime, RabbitMQ, **Gerrit (for code review)**, Ollama, Git, Vim, Postman

EXPERIENCE

Yolex Labs

Founding Software Engineer · Full-Time

Remote

Nov 2025 - Present

- Architecting **STORM**, an AI-powered workforce intelligence platform combining multi-modal simulations, a real-time voice AI interviewer, and a layered **agent ecosystem** (skill verification, engagement, capability mapping, recruiting); ownership across F# BFFs, NestJS, K8s, and the eval pipeline.
- Designed simulation surfaces across **code editors, spreadsheets, slide decks, and live-editable diagram canvases** driving real candidate work tasks.
- Sub-second voice loop on **OpenAI Realtime** via **dual parallel WebSockets** (conversation + STT) with **dual-VAD** for ~680ms barge-in.
- **XState v5** state machine replaces 11 ad-hoc boolean flags, eliminating an entire class of UI deadlock failure modes.
- **Async STT post-correction** using AI replies as context to fix domain-vocab errors; immutable **rawMessage** storage for evaluator-grade audit.
- Built a **position-aware extension of G-Eval** in F# scoring weighted role-specific rubrics over multi-evidence inputs for **competency adherence**.
- A/B'd **LiveKit + Silero + BVC + Krisp** (95-99% STT under adversarial noise); adopted Silero VAD and Krisp without framework migration.

Storesdata

Founding Software Engineer · Contract

Remote

Feb 2024 - Dec 2025

- Building an AI-powered pipeline analyzing **5M+ Shopify stores**, surfacing insights on pricing, tech, and growth patterns.
- Boosted data ingestion throughput by **25%** using **Inngest** for event-driven, fault-tolerant workflows.
- Cut storage costs by **50%** through blob migration to **S3** and applying Gzip compression.
- Enabled **500+ concurrent store scans** with parallel workers and **exponential backoff** to mitigate rate limits.
- Implemented a **snapshot versioning system** to track historical storefront/product/pricing changes over time.
- Engineered scalable data services in **TypeScript** using **Bun, Prisma, and PostgreSQL**.

Sundial

Founding Software Engineer · Full-Time

Los Angeles

Sep 2023 - Dec 2024

- Delivered an **AI Assistant** for Solar Installation Code Comprehension using **Next.js** for chatbot development.
- Achieved **30% faster async task processing** by architecting a high-performance backend with **Java Spring Boot** and **RabbitMQ** through optimized message queue design, load balancing and parallel task execution.
- Deployed Cloud SQL Database, VPC networks and connectors on **GCP** boosting data processing efficiency by **40%**. Implemented a **CI/CD** pipeline using GitLab for automated deployments and testing.

Google Summer of Code

Mifos Initiative · Internship

Remote

May 2022 - Aug 2022

- Integrated a centralized **IAM System** into **Apache Fineract's** Payment Hub Infrastructure enhancing system security.
- Deployed an enterprise-grade Authentication Framework using **OpenID Connect, Kong Plugins, and Keycloak**.
- Implemented backend service using Kubernetes, Nginx & Java Spring Boot reducing incident reports by **30%**.

Voomp Technologies

Co-Founder and Software Engineer · Full-Time

Kolkata

Aug 2020 - May 2021

- Co-founded Voomp; Built and sold **Loan Management Systems** for NBFCs; generated **\$100K+ revenue** in 9 months.
- Enhanced Fineract's microfinance platform & produced a **Co-Lending Feature** to enable **multi-lender loan** capabilities.
- Secured a **90% client retention rate**, navigated complex sales cycles, and maintained high client satisfaction.

PUBLICATION

Gupta et al. (2021). *Behavioral Scoring Based on Social Activity and Financial Analytics*. In: Inventive Computation and Information Technologies. Lecture Notes in Networks and Systems, vol 173. Springer, Singapore.