

CHETAN GOEL

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EDUCATION

NEW YORK UNIVERSITY, New York, NY May 2026
Master of Science in Computer Science, *GPA: 3.95*

UNIVERSITY OF MASSACHUSETTS AMHERST, Amherst, MA May 2023
Bachelor of Science in Computer Science, *GPA: 3.91*, Cum Laude, Dean's List, Chancellor's Award Scholarship

WORK EXPERIENCE

MINDSPRINT Remote
Software Engineering Intern Jun 2026 - Present

- Implemented reliability and security fixes for a client's existing AI-powered KYC platform (**FastAPI**, **LangGraph**, **Azure OpenAI**), addressing failures in automated due-diligence workflows.
- Delivered **26 fixes** for review following a **47-finding audit**, including external-service timeouts, credential removal, and restored **TLS** certificate verification.

BÜHLER AEROGLIDE Cary, NC
Software Engineering Intern Aug 2023 - Apr 2024

- Developed an end-to-end **retrieval-augmented generation (RAG)** application as the sole developer for a **~50-person** engineering team, integrating a **React/Electron** desktop client and **Python/Flask** API for conversational querying.
- Set up document ingestion and **vector-embedding** pipelines over **~750 GB** of source documents, enabling **semantic search** and LLM responses grounded in retrieved content without requiring familiarity with teammates' folder structures.

CISCO SYSTEMS San Jose, CA
Software Engineering Intern May-Aug 2022, Jun-Aug 2021

- Developed **CI/CD** test-failure analytics for a Webex API service with **25+ service dependencies**, correlating **Jenkins** test results with server logs in **Elasticsearch** to investigate intermittent failures.
- Designed **Kibana** dashboards for pipeline-health monitoring and per-build diagnostics, grouping failures by test package, environment, and status code and surfacing tracking IDs for targeted investigation.
- Implemented **Figma** designs for the Webex Office add-in in **React** and contributed **13 merged PRs** to Webex's open-source React component library.

WARNERMEDIA Seattle, WA
Software Engineering Intern Jan 2022 - Apr 2022

- Shipped **Node.js/TypeScript** microservice changes for HBO Max account provisioning, restoring access and replacing hard deletion with status-based expiration to preserve downstream account-deletion workflows.
- Built **React** account-provisioning controls integrated with **REST APIs**, enabling business operations and QA to expire account entitlements directly from the admin dashboard.

PROJECTS

Overeasy SwiftUI · Python/FastAPI · Whisper

- Engineered a multi-stage AI pipeline converting shared videos into recipes through **speech-to-text**, evidence validation, and structured LLM extraction, powering an offline iOS library and crowdsourced discovery.
- Evaluated **5 LLMs** on an **80-recipe text benchmark**, selecting an extraction model that achieved **100% schema-valid outputs**, **7.3-second median latency**, and **~\$0.016 per recipe**.

Knute React Native · SwiftUI · TypeScript/Fastify · PostgreSQL

- Created a native **SwiftUI** algorithms-learning app with **10 interactive problem formats**, **async/await** networking, and a protocol-based API layer supporting interchangeable live and mock backends.
- Built a multi-pass LLM curriculum pipeline with **7 specialist reviewers** assessing correctness, pedagogy, and prerequisites, using **Zod** schema validation and an adjudication stage to reconcile feedback before human-reviewed publication.

SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Swift, Java | **AI/ML:** PyTorch, LangGraph, RAG, vector search, LLM evaluation, Model Context Protocol (MCP) | **Web & Mobile:** React, Next.js, React Native/Expo, SwiftUI, Tailwind CSS, TanStack Query | **APIs & Data:** Node.js, FastAPI, Fastify, PostgreSQL, Redis, Pydantic, Zod | **Testing & Delivery:** pytest, Vitest, Docker, GitHub Actions, Jenkins, Azure | **Development Tools:** Git, Claude Code, Codex