

Omkar Patel

Boston, MA · SF Bay Area · Open to relocate

408-313-6396 | omkarxpatel@gmail.com | [LinkedIn](#) | [GitHub](#) | [Interactive Portfolio](#)

EDUCATION

Northeastern University
Bachelor of Science in Computer Science

Expected Apr 2028
Boston, MA

De Anza College
Dual Enrollment

Aug 2021 – Jul 2025
San Jose, CA

- Earned **60+** college credits over 4 years of dual enrollment, attending full-time as a high school senior.

Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Logic & Computation, Probability & Statistics, Mathematical Foundations of AI, Object-Oriented Programming, x86 Assembly & Architecture

EXPERIENCE

AI Engineer Intern
Rysun Labs

May 2026 – Present
Milpitas, CA

- Built a multi-tenant pipeline that crawls e-commerce storefronts (tested up to **46K products**) and generates LLM-facing deliverables from enriched product data, raising parsing accuracy from **16% to 84%**.
- Shipped a drop-in hybrid search API on Elasticsearch, fusing vector + keyword retrieval with RRF, then LLM re-ranking; **+4.1% NDCG@5** over a BM25-only baseline on natural-language queries.
- Targeted AI-referred traffic through two paths, LLM-facing deliverables and hybrid retrieval, with UTM tagging across **7 formats** to measure the lift from each.

Founding Engineer
Kinoraa

Feb 2026 – Present
Milpitas, CA

- Sole engineer on a zero-install platform that gathers relatives' stories into one private timeline and surfaces the connections between them; **450+ families** logged **6,000+ stories** in the first three months.
- Developed end-to-end: a signature-verified WhatsApp webhook driving a conversational state machine (invite, join, capture, share, reply, consent), passwordless QR sign-in with single-use webview links, and the memory-capture flow from text/voice/photo/video intake to delivery across role-based family circles.

Lead Developer
Lynbrook High School Job Shadow Program

Feb 2023 – Apr 2025
San Jose, CA

- Built the platform behind the program's job-shadow day, matching **560+ students** to **115 companies**.
- **Promoted to Lead Developer**, leading **5 student developers** to ship and maintain three annual releases.

PROJECTS

WizGTO — Poker GTO Study Tool | 
TypeScript, Rust, CFR Solver, Chrome Extension

Jul 2026 – Present

- Built a poker study tool on a local Rust solver that plays hands out to converge on an unexploitable strategy.
- Tracks gameplay to analyze playstyle and leaks, then builds an exploitative model to practice against.
- Shipped an autonomous bot to Chipzen, a bot-vs-bot poker arena, winning **~84.4%** of rated matches under its no-egress **256 MB** and **2s**-per-decision limits.

ROT — Custom Programming Language | 
Python, Pytest, Next.js, Pyodide, Framer Motion

Jan 2024 – Present

- Developed a custom programming language end-to-end, from lexing through recursive-descent and Pratt parsing into a source-positioned AST, with no parser libraries or `exec()`.
- Made execution visible: the browser animates tokenizing, parsing, and evaluation line by line as the program runs.
- Keeps two execution engines in sync, a tree-walking interpreter as the reference and a **38-opcode** stack VM compiled from the same AST.

Summary Bot | 
Python, Discord.py, OpenAI, Google TTS, GCP, Firebase

Mar 2023 – Present

- Built a Discord bot that summarizes high-volume conversations; deployed across **1,800+ servers**, reaching **875,000+ users** and analyzing **~20M words** of conversation.

TECHNICAL SKILLS

Languages: Python, Java, C++, Rust, TypeScript, JavaScript, SQL

Frameworks & Databases: React, Next.js, Node.js, Flask, REST APIs, PostgreSQL, Elasticsearch, Firebase

Developer Tools: Docker, GCP, Git, GitHub Actions, CI/CD, Pytest, Vitest, Playwright

AI/ML: NLP, RAG, Hybrid & Vector Search, Re-ranking, Embeddings, LLM Evals, MCP, PyTorch, NumPy