

SHLOK THAKKAR

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EDUCATION

University of Illinois Urbana-Champaign

B.S. in Computer Science + Economics, GPA: 3.91/4.00, Minor in Statistics

Expected May 2028

Champaign, IL

EXPERIENCE

Stealth Startup

Jun. 2026 – Present

Software Engineering Intern

New York, NY

- Launched an agentic claims product to real users, defending the LLM tool layer against prompt injection at a 112/113 adversarial-payload catch rate on the intake path
- Orchestrated a two-phase LLM research pipeline, parallelizing it with ThreadPoolExecutor across 6 concurrent web-search calls to cut latency roughly 75% (2–3 min to 30–40 s)
- Designed a 12-table PostgreSQL schema with pgvector (1,024-dim embeddings) and full-text search, powering hybrid context retrieval via RRF fusion of cosine and BM25 in one SQL query with no separate vector store
- Built a serverless backend across 4 AWS Lambda functions and Aurora PostgreSQL Serverless v2, sustaining sub-100ms query latency while removing 4 managed services via the RDS Data API

Disruption Lab @ UIUC

Aug. 2025 – Present

Software Developer

Champaign, IL

- Redesigned a read-only tool into a fully editable platform for 40+ users by building a Flask and Neo4j REST API serving real-time project-resource dependency graphs with optimized Cypher queries
- Expanded automated tax-schema diff coverage from 7 to 27 states (+286%) for a Fortune 500 financial-services client by building a Python/lxml XSD parser over a 44-jurisdiction pipeline

IQM Corporation

Jun. 2025 – Aug. 2025

Software Development Intern

Ahmedabad, India

- Delivered AI-powered analysis to 3 internal teams by building a production FastAPI service with JWT auth and rate limiting on AWS Bedrock via LangChain, serving 40+ concurrent users under a 30-second latency target

PROJECTS

FeeLens | Next.js, TypeScript, Tailwind CSS, Supabase, Anthropic API

GitHub

- Created a full-stack Stripe fee-intelligence dashboard zero to one in Next.js 16 and TypeScript, wiring 24 React components and 8 App Router API routes to Supabase Postgres with row-level security and a no-credentials demo mode
- Integrated the Anthropic API as a fee optimizer that turns a computed leakage breakdown (refund retention, Amex premium, cross-border surcharge) into ranked JSON recommendations, with AES-256-GCM encryption of tenant Stripe keys at rest

VibeSafe | TypeScript, GitHub Actions, Express, PostgreSQL, Redis

GitHub

- Published a GitHub Action that reviews pull-request diffs with an LLM across 10 vulnerability categories and 3 severity tiers, posting a 0–100 security score and blocking merge on critical findings
- Structured a 3-package TypeScript monorepo (action SDK, Express/PostgreSQL/Redis API, shared types) with YAML-configurable custom rules and 27 unit tests, documented as a copy-paste workflow quickstart

Ramp Builders Cup (Finalist) | Next.js, React, Supabase, OpenAI API

GitHub

- Earned finalist placement at a one-day hackathon by delivering a shared-cart payments app with a 4-person team: 23 Next.js API routes, 10 Postgres migrations, and 81 Vitest cases across a mobile-first PWA
- Devised a deterministic largest-remainder split engine that allocates every line-item cent exactly, keeping the LLM off the money path while an agentic cart builder turns free text into a priced multi-vendor cart

Scroll Royale | SwiftUI, Combine, AVKit, Supabase, PostgreSQL

GitHub

- Programmed a 1v1 competitive scrolling iOS app end to end in 30 hours at HackIllinois, spanning 31 SwiftUI, Combine, and AVKit source files across a lobby, video feed, leaderboard, and custom design system
- Constructed the matchmaking and scoring backend on a 10-table Supabase Postgres schema with row-level security and 15 RPC functions, holding near-real-time score sync through batched telemetry writes and a TTL cache with stale-while-revalidate reads

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C/C++, Go, SQL

Frontend & Product: React, Next.js, Tailwind CSS, shadcn/ui, SvelteKit, SwiftUI, Recharts, Full-Stack Product Engineering, Zero-to-One Prototyping, Technical Writing & Docs

AI & Agents: LLM Application Development, Agentic Workflows, Tool & Function Calling, Anthropic API, OpenAI API, Retrieval (pgvector, RRF), Prompt-Injection Defense

Backend & Cloud: Node.js, PostgreSQL, Supabase, Redis, Neo4j, FastAPI, Flask, REST APIs, AWS (Lambda, Aurora, S3), Vercel, Docker, Terraform, Git, CI/CD (GitHub Actions)

Relevant Coursework: Data Structures, Algorithms & Models of Computation, Computer Architecture, Discrete Structures, Linear Algebra, Statistical Analysis