

Khoa Nguyen

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EDUCATION

San Jose State University

B.S. in Data Science (Minor: Computer Science) | GPA: 4.0

San Jose, CA

Expected Jun 2028

- *Relevant Coursework:* Computing in Java; Discrete Mathematics; Data Structures & Algorithms; Object-Oriented Programming

PROJECTS

Hungry Flow (CalHacks 12.0) — Python, FastAPI, uAgents (Fetch.ai), Groq/Gemini, React (Vite) 2025

- Orchestrated Action, Cooker, and Advisor agents with typed Pydantic messages and REST bridges; non-blocking pipeline with async `httpx`.
- Implemented image → ingredients detection and recipe generation; advisor feedback loop retries until score $\geq 85/100$.
- Built glass-style UI with live step progress (detect → summarize → cook → advise); persisted results for polling.

SmartTrip.AI — Trip Planner React(Vite), Node/Express, Supabase Postgres, Prisma, JWT 2025

- Shipped secure CRUD for trips/stops with Supabase Auth (Google) & per-user scoping.
- Integrated Places Autocomplete/Details; normalized place ID, lat/lng, country, locality.
- Added deterministic cost estimator (lodging/flight/daily) and “Optimize budget” proposing 3 trade-off alternatives.
- Used Gemini API narrowly for labels; validated totals server-side to avoid hallucinated pricing.

Personal Blog Platform —Node/Express, Prisma, Supabase, JWT 2025

- Built a Backend markdown blog with auth, tags, search, and drafts.
- Designed RESTful APIs with input validation, rate limiting, and centralized error handling.
- Implemented optimistic UI updates and client-side caching for snappy create/edit flows.

AI Therapist (SCE Hacks) React, Node/Express, OpenAI API 2025

- Collaborated with 3 teammates to deliver a working prototype in 5 hours using GPT-4o mini.
- Created four therapist personas with prompt routing and strict JSON schema (goals, actions, resources) validated server-side.
- Improved UX with streaming responses and concise explanations; added telemetry for errors/timeouts.

LEADERSHIP

University Coding Club — Member Assistant

Aug 2024 – May 2025

Vermilion, SD

University of South Dakota

- Solved weekly algorithm challenges and presented solutions to 25+ members to foster collaboration.
- Mentored peers on debugging, complexity analysis, dynamic programming, and graph patterns.

AWARDS & CERTIFICATIONS

ICPC North Central Region — Honorable Mention (2024)

Certificate: Effective Teamwork (ICPC), 2024

Dean's List and Honors Programs — University of South Dakota, 2023–2024

College of Arts & Sciences Dean's List — USD, 2023–2024

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, SQL (Postgres), HTML/CSS

Frameworks/Libraries: React, Next.js, Node.js, Express, Tailwind CSS, FastAPI, uAgents (Fetch.ai), Prisma, OpenAI API, Gemini API, Groq

Databases: Supabase Postgres, MongoDB

Tools: Git, Vite, Postman, Render, Vercel