

Austin Nafe

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TECHNICAL SKILLS

Languages & Frameworks: Python, JavaScript / TypeScript, React, FastAPI, LangGraph, Node.js, SQL

Databases & Auth: PostgreSQL (Supabase), Supabase Auth, Stripe subscription management

Cloud & DevOps: Azure, Render, Docker / containerized deployments, DNS & SSL provisioning, REST APIs

EDUCATION

Master of Science, Computer Science 2021

Indiana University, Luddy School of Informatics, Computing, and Engineering

Bachelor of Science — Finance & Computer Science (AI Specialization) 2020

Indiana University, Kelley School of Business & Luddy School of Informatics, Computing, and Engineering

PROFESSIONAL EXPERIENCE

PwC Innovation Hub — Chicago, Illinois July 2023 – October 2024

Senior Associate – AI Engineer

- Designed and shipped 5+ production-grade AI plugins end-to-end — including an RFP generation tool, internal knowledge base connector, and EDGAR search — owning the full lifecycle from architecture through deployment and monitoring
- Built and maintained scalable cloud infrastructure on Azure for external banking clients, ensuring high availability, security compliance, and reliable uptime across environments
- Drove customer-facing analytics on PwC's internal Chat product, translating usage data into actionable insights presented to senior leadership that shaped product roadmap decisions
- Spearheaded AI Factory upskilling program — establishing engineering best practices, running technical workshops, and mentoring the data science team on production-quality software development

PwC Emerging Tech Lab — Chicago, Illinois June 2021 – June 2023

Associate – Research Engineer

- Built full-stack React applications for interactive product demos, including a QR-to-NFT digital wearables system with blockchain-based access control, collaborating closely with product and design stakeholders
- Researched and prototyped AI-driven code generation using GPT-2, exploring program synthesis as an early application of large language models to software engineering workflows
- Designed probabilistic inference systems using particle filtering and Approximate Bayesian Computation (ABC) for complex simulation and data modeling use cases
- Evaluated Intel LOIHI neuromorphic chip performance, analyzing FLOP efficiency and redundancy tradeoffs to assess feasibility for production AI workloads

PwC Cyber Security and Privacy — Chicago, Illinois June 2019 – August 2019

Intern

- Advised a large pharmaceutical client on GDPR compliance, conducting comprehensive risk assessments across data protection controls — directly applicable to healthcare data privacy and regulatory requirements
- Assessed data lifecycle management controls for sensitive patient and clinical trial information, ensuring alignment with privacy-by-design principles across the client's systems
- Identified gaps in data protection practices and delivered actionable remediation plans, developing skills in translating complex compliance requirements into clear, executable engineering recommendations

STARTUPS & SIDE PROJECTS

TM Go — South Bend, Indiana July 2025 – Present

Founder

- Architected and launched TM Go, an AI-powered tour management platform built in Python (FastAPI) + LangGraph, deployed to production on Render with PostgreSQL (Supabase) and Stripe
- Built a schema-mapping engine that infers and adapts to diverse user data structures with no manual configuration — enabling reliable reads/writes across varied spreadsheet and database formats
- Designed a scalable stateful backend with contextual memory, group SMS coordination, and phone-number-based auth — making onboarding frictionless with zero app install required
- Owned the full product lifecycle: system architecture, API design, database schema, deployment pipeline, and customer-facing UX — iterating rapidly on customer feedback to improve reliability and outcomes

SelfNVest AI — Louisville, KY

March 2025 – October 2025

CTO

- Architected a full-stack FSBO real estate platform using React, FastAPI (Python), PostgreSQL (Supabase), and Stripe — owning everything from database schema to production UI, with a focus on clean, maintainable, well-documented code
- Engineered a LangGraph-powered AI backend with user-specific persistent memory, handling multi-turn property inquiries, showing scheduling, and negotiation support with low latency and high reliability
- Implemented secure authentication and tiered subscription logic integrating Supabase Auth and Stripe, ensuring consistent access control across plan levels and edge cases
- Deployed and maintained production infrastructure on Render — managing DNS configuration, SSL provisioning, and domain integration from zero to live

ADDITIONAL EXPERIENCE & CERTIFICATIONS

Shirley Ryan Ability Lab — Chicago, Illinois

July 2021 – August 2022

Volunteer

- Supported rehabilitation initiatives at one of the nation's top rehab hospitals, gaining firsthand exposure to clinical workflows, patient outcomes, and the high stakes of healthcare technology decisions

Harvard Medical School – Continuing Education

October 2022 – December 2022

Regenerative Medicine

- Completed coursework in stem cell science, tissue engineering, and translational medicine — deepening understanding of the healthcare landscape and the patient-centered outcomes technology must ultimately serve

Science of Consciousness Conference

July 2025

Presenter

- Presented original research on Hyperdimensional Computing (HDC) as a framework for cross-modal integration, demonstrating the ability to tackle novel technical problems and communicate complex ideas clearly to a technical audience