

# Suyash Nagumalli

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AI Software Engineer generalist with 3+ years of experience building production-grade agentic LLM systems, full-stack applications, and user-centric tools at corporations and startups. Proficient in Python, SQL, AWS and modern AI/ML stacks. Delivering scalable and intuitive products with industry-standard design thinking and security best practices. Graduated from UIUC, a top 5 CS program in the USA.

## SKILLS

**Languages:** Proficient: Python(8yrs), SQL(5yrs), TypeScript/JavaScript(2yrs), C++(1yr) Intermediate: C#(1yr), Java(1yr), Swift(1yr), Go(1yr)  
**Technologies:** Claude Code, VSCode, Xcode, MCP, CrewAI, AWS, GCP, Docker, Git, Jenkins CI/CD, Postman, Agile, Jira, TensorFlow, PyTorch, NumPy, Pandas, SQL, Supabase, Neo4j, ElasticsearchDB, FastAPI, React, Angular, Flutter, Swift, Unity, VR, Figma

## EXPERIENCE

- AbbVie Chicago, IL  
**AI Software Engineer** Aug 2023 - Present
- Built a fullstack React+Vite genAI tool for medical directors to accelerate clinical discovery from 80 weeks down to 40 weeks
  - Resolved post-demo server crashes by moving blocking LLM calls to background threads, freeing event loop for ECS health checks
  - Shipped a prompt management FastAPI+ElasticsearchDB+React+AWS web app, securing a \$2 million contract with a vendor
  - Led cross-functional design initiative with UI/UX and engineering teams, delivering a web app to 10000+ employees
  - Created Neo4J knowledge graphs and vector indexes and improved a CrewAI tool with Graph RAG by 26% Rouge-L accuracy
  - Provisioned EC2 and S3 resources via AWS CloudFormation templates and Jenkins pipelines for coworkers
- AbbVie Champaign, IL  
**VR Software Engineer - Contractor** Jan 2023 – Jul 2023
- Built a VR module for doctors to converse with eight underrepresented AI patients, used in DEI training by 10+ clinicians
  - Optimized LLM response generation pipeline, reducing latency from 7 seconds down to 800ms
- Beur Remote  
**Frontend Software Engineer – Contractor** Dec 2021 – Apr 2022
- Developed and shipped the full calendar list view in ReactJS to enable Zoom bot scheduling for 92,000 active users
  - Built under tight deadlines in the lead-up to the CEO’s Shark Tank [pitch](#) supporting traffic surge after 1.6M+ views
- Showingly Denver, Colorado  
**Software Engineer Intern** Jun 2021 – Aug 2021
- Designed and built a CRM using ReactJS, MongoDB, and Agile methodology, for managing 1000+ MLS agent records
  - Learned React-Redux, Git, Scrum, and coding best practices and submitted 12 Pull Requests as a freshman intern

## PROJECTS

- [Spndmate.com](https://spndmate.com) Aug 2025 - Present
- AI automation tool for agentic expense tracking; launched on iOS and Android (open testing)
  - Built using Expo, RevenueCat, Supabase, render.com, Cursor, Claude, OpenAI Responses API, Google Auth and Sheets API
- Stealth Startup** Jun 2025 - Present
- Built a zero-to-one iOS social app using Swift, FastAPI, Supabase, and AWS; released via TestFlight for Beta release
  - Leveraged Cursor AI Code Editor; rapidly shipped Auth, Posts, Likes, Friends, Search, under 4 weeks
- Improving RAG Retrieval methods** | LLM post pre-training CS 598 Project (~70 hours) [link](#) Oct - Dec 2024
- Comprehensive literature review, explored limitations, proposed hybrid retrieval approach combining CDE and graph RAG
  - Preliminary results show graph RAG (2024) outperforms CDE (2024) and RAG (2020) by 30% on Rouge-L F1 score
- Considerthis.ai** | UC Berkeley AI Hackathon (~30 hours) [link](#) Jul 2024
- An emotionally intelligent multi-agent conversation tool used by educators to empower students to stay curious
  - Built using Supabase, Hume.ai, reactJS to successfully collaborate with UC Berkeley, UWashington and CUBoulder students
- Spotify LED Controller** | Internet of Things CS 437 Project (~30 hours) [link](#) May 2023
- Program to sync LED lights to song playing on Spotify, enhancing user immersion; successfully tested with 30+ songs
  - Written in Go on Raspberry Pi; uses Spotify API, Bluetooth 2.4GHz protocol, and a custom album-art-based coloring algorithm

## EDUCATION

**University of Illinois at Urbana-Champaign**  
Master of Computer Science Graduated May 2025  
Bachelor of Science in Computer Science with Honors Graduated May 2024  
Relevant Coursework: Data Structures, Algorithms, Machine Learning, Deep Learning, Software Engineering, LLM post pre-training, Artificial Intelligence, UI Design, Database Systems, CUDA Programming, Computer Security and Networks, Internet of Things, Compilers

## ACTIVITIES

- Knowledge Graph Conference Speaker, NYC** / presenting graph and agentic tools to accelerate clinical trial discovery 2026  
**Emergent Abilities of LLMs papers** / Led 90-minute presentation and discussion of two papers with 10 LLM researchers 2024  
**Python Private Tutor** / taught Python basics to three sixth graders; Received positive feedback and praise from parents 2024  
**Engineering Open House Volunteer** / strong leadership skills in engaging 50+ middle-schoolers and parents 2024  
**First place Hackathon Winner** / PowerBI & Data Analytics project with AbbVie / ~50 competitors 2024  
**Athletics** / Ran three half-marathons with a PR of 2:14 hours / perseverance and consistency of training 2024