

Rohit Sudhakar

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Education

University of Wisconsin–Madison

May 2026

B.S. Computer Engineering: Machine Learning & Data Science Track

GPA: 3.72/4.00

- **Coursework:** Software Engineering, Database Management Systems, Algorithms & Data Structures, Object-Oriented Programming, Machine Organization & Programming, Mobile Computing, Neural Networks, Optimization
- **Awards:** Dean's Honor List (6 consecutive semesters), Best Capstone Project Award (selected from 40+ teams)

Skills

TypeScript, JavaScript, Python, Java, C/C++, Kotlin, Dart, SQL, React, Next.js, Node.js, Express, Flask, TailwindCSS, PostgreSQL, Supabase, SQLite, Redis, MongoDB, Firebase, Docker, AWS, Git, REST APIs, WebSockets, CI/CD, Agile

Experience

Lead Developer | *Nidra (Full-Stack Meditation Platform)*

Jan 2026 – Present

- Built the entire admin portal for a meditation platform using Next.js 16, React 19, Supabase, and TypeScript across 18+ repositories with coordinated releases, enabling creators and end users to manage content across mobile and web surfaces from a single unified interface.
- Designed 40+ data models with Row-Level Security, 10+ Edge Functions, and 40+ API routes using Supabase to power a content CMS, moderation queue, and audit logging system, cutting content review turnaround from days to under 2 hours.

Founding Engineer | *Office Hours Queue*

Sep 2025 – Present

- Designed and built a real-time queue platform using React, TypeScript, Flask, PostgreSQL, Redis, and Docker to eliminate 45+ minute student wait times with zero queue visibility, now actively serving students and teaching staff across multiple UW-Madison course sections with hundreds of support tickets weekly.
- Implemented SSO login with JWT sessions and role-based access using a dynamic form builder supporting 8 field types with drag-and-drop reordering and auto-save drafts, cutting average wait confusion to near zero across all user roles.
- Architected Redis-backed state synchronization using pub/sub for live ticket updates across all connected clients, handling 200+ concurrent users with sub-second latency during peak hours without race conditions or stale state.

Founding Engineer | *Pocket Therapist (Award-Winning Mental Wellness App)*

Sep 2025 – Dec 2025

- Led a 4-person team to build an Android mental wellness app using Kotlin and Firebase with 5+ API integrations including NLP-based emotion detection, guided journaling, and therapist-matching, winning the Best Capstone Project Award out of 40+ competing teams.
- Designed the full data layer using Firebase Auth, Firestore, and Cloud Functions with offline-first sync for unreliable campus Wi-Fi and push notifications for daily check-ins, driving a 35% increase in weekly active journaling sessions across the early adopter cohort.

AI / Software Engineering Intern | *Ardent Capital Pvt. Ltd.*

May 2025 – Sep 2025

- Built an AI transaction categorization platform using Python/Flask with FLAN-T5 inference, schema validation, and fuzzy matching to process 1.4M+ banking records, replacing a fully manual workflow that consumed weeks of effort per reporting cycle.
- Shipped a React/TypeScript dashboard using threaded background jobs and batched inference for real-time monitoring and result exports, improving model accuracy by 12% over two release cycles through a built-in retraining flow.

Software Engineering Intern | *Jubilant Capital*

May 2024 – Aug 2024

- Built a full client management system using React, Tailwind, Flask, and PostgreSQL to replace spreadsheet-based tracking of 1,000+ client records with no access controls, cutting manual data entry by 60% and improving operational efficiency by 20% within the first month of deployment.
- Added role-based access control and optimized SQL queries using server-side validation and a CI pipeline, ensuring reliable and scalable releases as the client base and data volume continued to grow steadily across all departments.

Software Engineering Intern | *Infinity Credit Solutions*

May 2023 – Sep 2023

- Automated repetitive financial workflows using Python and Zoho CRM integrations with scheduled reports, webhook notifications, and validation rules, increasing team productivity by 25% and eliminating several hours of daily manual data entry and reconciliation work.

Projects

AI Restaurant Recommender & Review Summarizer | *Flask, GPT API, Web Scraping, React*

2025

- Built a personalized restaurant recommender using Flask, GPT API, and web scraping to parse 5+ reviews per restaurant and rank results with a composite scoring function over rating, recency, distance, price, and user preferences, delivering actionable dining recommendations instantly.
- Shipped a polished web UI using React with interactive map view, filters, and shareable deep links, instrumenting click/save events for offline ranking evaluation (MRR/NDCG@k) to enable A/B comparison on ranking weights and user preference signals.

Client Database Management System | *React, Tailwind, Flask, PostgreSQL, PyMongo*

2024

- Designed secure REST APIs using Flask and PostgreSQL with server-side pagination, CSV bulk import via background jobs, and role-based access control, reducing manual entry by 60% with a responsive React/Tailwind UI featuring searchable tables, multi-column filters, and inline validation feedback.