

Brian Cochran

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EDUCATION

University of Illinois Urbana-Champaign

Aug. 2024 – May 2028

Bachelor of Science in Computer Science + Economics, Minor in Business

GPA: 3.91/4.00

Relevant Coursework: *Intro to Algorithms and Models of Computation, Database Systems, Text Information Systems, Intro to Computer Systems, Data Structures, Probability and Statistics for Computer Science, Software Design Lab, Discrete Structures*

EXPERIENCE

Synchrony | Software Engineering Intern

Jan. 2026 – Present

- Built AI code-gen agents automating SDK implementation from Jira to Bitbucket PRs, cutting manual effort 60%
- Shipped payment, card-access, and subscription modules in an SDK powering 5 teams' apps used by millions
- Architected graph-based fraud detection in Neo4j, part of a \$130M+ annual fraud-prevention run rate
- Built distributed data-ingestion pipelines on Apache Spark and Hadoop feeding the fraud graph on AWS

CUBE Consulting | Business & Engineering Consultant

Sep. 2025 – Dec. 2025

- Built an AI tutoring assistant (Speech-to-Text + OpenAI) surfacing real-time prompts from tutoring dialogue
- Delivered an end-to-end demo to client Zentora on a Zoom-SDK video platform with scheduling and feedback

iQor | Software Engineering Intern

May 2025 – Aug. 2025

- Led an end-to-end UI overhaul and design system for the iQorian app (40,000+ users), CTO-approved for rollout
- Built Appium test suites across mobile UI and backend APIs, adding automated regression coverage to CI/CD

Cal AI | Software Engineering Intern

June 2024 – Aug. 2024

- Reworked the food-detection correction pipeline to parse natural-language edits, +20% accuracy in production
- Migrated AWS Lambda from Python to TypeScript, cutting costs ~40%; acquired by MyFitnessPal for \$100M+

PROJECTS

Cascade | Python, Neo4j, ChromaDB, FastAPI, Next.js, AWS S3, Claude

June 2026 – July 2026

- Built a Graph RAG system modeling sentiment cascades, hitting 100% entity recall vs 76% for flat vector search
- Designed a Neo4j schema (5 weighted relationship types) and an N-hop Cypher retriever for cascading impacts
- Built an LLM-as-judge eval harness where the graph won 75% of head-to-head multi-hop queries vs flat RAG

drnk | React Native, Expo, Supabase, Deno, Gemini, TypeScript

June 2026 – Present

- Shipped an iOS app gating screen time behind verified hydration via Apple DeviceActivity/FamilyControls
- Built a fail-closed CV pipeline sending on-device frames to Gemini vision to mitigate false positives
- Built a deterministic, unit-tested screen-time economy engine (caps, cooldowns, streaks, multipliers)
- Engineered a privacy-first serverless backend with server-side keys, no image storage, and GDPR deletion

Liftype | Expo, React Native, TypeScript, Supabase

May 2026 – Present

- Built a natural-language workout-note parser with a regex fast-path and Claude fallback to cut LLM calls 80%
- Architected a local-first iOS lifting app, available offline with an outbox syncing to Supabase
- Built the Supabase backend (Postgres, RLS, edge functions) with LLM workout coaching, RevenueCat, and OAuth

LEADERSHIP & INVOLVEMENT

Metanoia | Co-Founder & President

Mar. 2026 – Present

- Co-founded a Greek Life outreach initiative at UIUC, drawing 200+ attendees to the inaugural event
- Ran grassroots marketing, partnerships, and recruiting pipelines driving member acquisition across chapters

Phi Gamma Nu Business Fraternity | Philanthropy & Wellness Committee

Sep. 2025 – Present

- Selected 1 of 30 from 900+ applicants; raised \$1,000 for Camp Kesem, aiding children of cancer patients

Sigma Alpha Epsilon, Illinois Beta | Vice President & Small Group Leader

Apr. 2025 – Present

- Elected Vice President of a 100+ member chapter, leading daily operations and enforcing chapter risk protocols
- Facilitate a weekly small group, developing original curriculum and leading sessions on personal development

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, Kotlin, C/C++, SQL, HTML/CSS

Full-Stack: React, Next.js, Node.js, FastAPI, REST APIs

Mobile: React Native, Expo, iOS, Android, RevenueCat, Appium, Supabase

Data & Infra: Neo4j, ChromaDB, PostgreSQL, Spark, Hadoop, AWS (S3, Lambda), Docker, Git/GitHub