

Andrew Hanson

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SUMMARY

Software Engineer with experience building scalable backend systems, APIs, and data-driven applications using Python, TypeScript, SQL, and cloud-native technologies. Proven ability to ship production-ready features across AI, analytics, and full-stack platforms while improving system performance, deployment workflows, and developer reliability. Experienced working in fast-paced startup and collaborative engineering environments.

EDUCATION

Indiana University South Bend, Graduated 05/2026 | South Bend, IN
B.S. in Informatics | GPA 3.5 | Honors | Dean's List (4 years)
• Top Performer - US Cyber Challenge Camp (2025) | Member - National Society of Leadership and Success (NSLS)

Georgia Institute of Technology, M.S. in Computer Science (Online) Admitted; anticipated start Fall 2026

PROFESSIONAL EXPERIENCE

Snap Inc. | Augmented Reality (AR) Development, Extern 10/2025 – 12/2025
• Designed, optimized, and presented an interactive AR Lens to Snap's Philanthropy Director using Lens Studio and custom assets, resulting in **30,000+** plays, **40%** higher completion vs. baseline templates, and **~50%** lower render time on mid-tier devices.

Full Stack Developer Intern, WayAhead 09/2025 – 10/2025
• Developed production-ready backend services for an AI-powered legal document platform using **Node.js**, **Supabase**, **SQL**, and **OpenAI APIs**, handling secure document generation and retrieval.
• Implemented **GitHub Actions** and Vercel-based CI/CD, reducing manual release steps from 5 to 0 and cutting average deploy time by 30%.
• Designed and implemented backend API flows for secure AI-generated legal document storage and retrieval.
• Participated in code reviews and introduced refactoring changes that improved code readability and reduced bugs in critical services.

Software Engineer Intern, ULimo 07/2025 – 09/2025
• Built and optimized scalable backend services and REST APIs using **Python**, **TypeScript**, and **Supabase**, supporting production-facing booking and customer workflows.
• Refactored **5,000+** lines of backend code and optimized Supabase queries, reducing API latency by **15%** and improving throughput by **20%**.
• Designed reusable service components and database queries, cutting data retrieval time by **30%** and reducing technical debt across services.
• Contributed to API and data model design decisions, including pagination, error handling, and security considerations for customer-facing endpoints.

PROJECTS

AI Real Estate Dashboard - SprintHack@ND 11/2025
Hackathon Competitor | University of Notre Dame | Fall 2025
• Built backend integrations aggregating **market data APIs**, **valuation tools**, and **analytics** into a single dashboard.
• Designed data flows and schemas that consolidated 3+ fragmented tools into a single dashboard, reducing context-switching and manual data lookups for agents.
• Delivered a functional MVP in **24 hours** and presented to technical and non-technical stakeholders.

Data Analysis Project - Best Insight Award 2026 03/2026
University of Notre Dame | Mar 2026
• Awarded "Best Insight" at ASA DataFest 2026 after analyzing **390,000+** respiratory healthcare encounters across Northeast Kansas during a **48-hour** national analytics competition.
• Conducted exploratory healthcare analytics in Python using Pandas, statistical analysis, and geospatial visualization techniques to identify disparities in emergency department reliance across demographic groups.
• Investigated longitudinal healthcare encounter trends and confounding variables including smoking status, seasonality, and socioeconomic/environmental factors.
• Built visual analytics and statistical comparison workflows to evaluate respiratory ED reliance patterns across race, age, and socioeconomic variables.

TOOLS & TECHNOLOGIES

Languages & Frameworks: Python, Java, TypeScript, JavaScript, .NET, Bash, Dart, Flutter, Supabase, Firebase, React Native, Node.js

Data & Databases: Pandas, NumPy, JupyterLab, Data Analytics, SQL, PostgreSQL, MySQL, NoSQL, MongoDB, Amazon DynamoDB, ETL pipelines, Supabase

Cloud & DevOps: AWS (Lambda, EC2, S3, API Gateway, Amplify), Docker, Kubernetes, GitHub Actions, Terraform, CI/CD pipelines, Git

CERTIFICATES & AWARDS

Six Sigma Green Belt, The Council for Six Sigma Certification (CSSC) 01/2026

Student Excellence Award in Informatics, Indiana University 05/2026