

Ansh Patel

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Education

University of Minnesota (B.S. in Computer Science, 3.75 GPA)

(Expected Graduation) May 2026

- Relevant Coursework: Data Structures and Algorithms, Operating Systems, Machine Learning, Database Management Systems
- Clubs: Association for Computing Machinery (ACM), Lettuce Club, Social Coding, App Development Club

Technical Skills

Skills: Python, C++, C, React, React Native, JavaScript, Typescript, Java, HTML/CSS

Technologies: MySQL, MongoDB, Git / GitHub, AWS, Jenkins, Docker, Azure, Next.js, Node.js, FastAPI, Firebase/Firestore, Figma, Flask

Experience

Dow Jones, Software Engineering Intern

June 2024 - December 2024

- Implemented a real-time alert system using **AWS** Lambda functions written in **Python** and RSS feeds to deliver immediate Slack notifications for new SEC filings, reducing alert response time by **50%**.
- Led the development of an **LLM-based** editorial assistant to significantly improve the efficiency of journalists' article generation.
- Built real-time alerting tools **used company-wide** by journalists to get instant notifications of corporate actions.
- Enhanced internal document search capabilities with **Semantic Search** and **Retrieval-Augmented Generation (RAG)**, increasing search result accuracy by **60%** and facilitating quicker decision-making.
- Designed systems to analyze market data and automatically generate company closing stories, reducing manual reporting time significantly and ensuring real-time publication.

Samsung, Software Engineering Intern

June 2023 - Aug 2023

- Enhanced network performance and troubleshooting capabilities for **285 million users** by developing thorough diagnostics tools.
- Spearheaded the development of an IoT network topology tool that enhanced diagnostic capabilities by **60%**, enabling rapid identification and resolution of consumer network issues, written in **Python** and **C**.
- Designed and developed a user-friendly **React**-based frontend to showcase data retrieved from other **Matter**-enabled smart devices.

GopherGrades, Developer (umn.lol)

August 2022 - Present

- Developed a grade transparency tool designed to provide students with past grade distributions for classes and professors.
- Serving **3M+** queries, **35k+** unique users, **1.5k+** browser extension downloads every year.

University of Minnesota, Undergraduate Teaching Assistant

January 2025 - Present

- Will assist in the instruction of the **Practice of Database Systems** course and be responsible for creating and grading homework assignments, and holding office hours.

Technical Projects

Aly, 1st Place in Education @ HackNYU (github)

Javascript, React Native, Firebase, Apple Maps

- Created a Chrome Extension, website, and iOS app to embarrass the user if they are off task.
- Designed an iOS app using **React Native** with real-time interaction between app & extension using **Firebase**.
- Utilized a **90%** accurate deep learning model using cosine similarity to scan web pages and detect when a user is off task.

Annote, 1st Place @ HackUlowa (github)

Typescript, React, Python, Whisper, MongoDB, Next.js

- Built a note-taking app and website with speech-to-text recognition models to record and transcribe lectures
- Designed UI with **Figma** and **TypeScript**, and built **RESTful APIs** for note retrieval & upload to **MongoDB**.
- Awarded **Best Accessibility Hack** for assisting those with hearing loss, ADHD, and blindness.
- Ability to replay recordings of lectures and view past notes and transcriptions with unique links to share with others.

Luna

Electron.js, Next.js, Azure

- Developed a voice assistant system with comprehensive browser control capabilities.
- Implemented real-time speech-to-text recognition using **Azure** & trained a model to detect wake words.
- Fine-tuned model with training data optimizing performance and accuracy for browser controlling.