

Ansh Patel

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Education

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

(Expected) May 2026

- Dean's List, Dual Enrollment in High School
- 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, Docker, Azure, Next.js, Node.js, FastAPI, Firebase/Firestore, Figma, Flask

Experience

Dow Jones, Software Engineering Intern

June 2024 - Present

- Current intern on the News Automation team, working with ML and AI to generate content for The Wall Street Journal and MarketWatch.

Samsung, Software Engineering Intern

June 2023 - Aug 2023

- Worked on the SmartHome platform (SmartThings) team using **Python & C** to develop and analyze **Thread** network diagnostics data from a SmartThings hub, enhancing network performance visibility and troubleshooting capabilities for **285 million** users.
- Spearheaded the development of an IoT network topology tool that enhanced diagnostic capabilities by 60%, enabling rapid identification and resolution of consumer network issues.
- Designed and developed a user-friendly **React**-based interface to showcase diagnostic data retrieved from **Matter** 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.
- Used Python, SQLAlchemy, Pandas, Next.js, React, and ChakraUI to build a web app and browser extension.

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**.
- Improved task management by integrating the **Apple Maps** API to efficiently cross-reference location data.
- 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.

Luna (github)

Electron.js, Next.js, Azure

- Developed a voice assistant system with comprehensive browser control capabilities, enabling seamless navigation and interaction with web content.
- 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.

Leadership Experience

Captain, FIRST Robotics

Sept 2018 - May 2022

- Led a team of students to design a mechanism that won **Excellence in Engineering** and a **Creativity Award**.
- Organized events at fairs and local elementary and middle schools to introduce **2,000** people to FIRST Robotics.