Stuti Shah

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Education

University of Minnesota (B.S. in Computer Science, Statistics Minor)   Sep 2022 - May 2025
- **GPA: 3.95**/4.0, Dean's List (Fall 2022, Spring 2023)
- **Relevant Courses:** Algorithms and Data Structures, Computational Linear Algebra, Discrete Mathematics, Probability and Statistics, Program Design and Development, Internet Programming, Machine Architecture, Python Programming, Java Programming

Skills

Programming Languages: Python, Java, Typescript, JavaScript, HTML/CSS, C++

Frameworks/Libraries: Flask, NumPy, React, React Native, NextJS, NodeJS

Development Tools: MySQL, Firebase/Firestore, Google Cloud Platform, Figma, Docker, MongoDB, Git/Github

Experience

Meta, Software Engineering Fellow (via mlh)   Jun 2023 - Sep 2023
- Developed an open-source webapp using **Python**, **Flask**, **MySQL**, Nginx, and Unittest
- Automated workflows with GitHub Actions and **Docker** to DigitalOcean droplets and ran tests before production
- Enhanced website reliability by implementing a CI/CD pipeline and monitoring, alerting, and visualization with Prometheus and Grafana

Gopher Grades, Developer (umn.lol)   Nov 2022 - Present
- Developed a grade transparency tool designed to provide students with past grade distributions for classes and professors
- Serving **3M+** queries, **30k+** unique users, **1.2k+** browser extension downloads.
- Used **Python**, SQLAlchemy, Pandas, **Next.js**, **React**, and ChakraUI to build a web app and browser extension

Eyenuk Inc, Research Intern (eyenuk.com)   Jun 2021 - Sep 2021
- Assisted leading scientists in advancing AI algorithms for the detection of Diabetic Retinopathy, contributing to breakthrough improvements in accuracy and performance
- Accurately annotated **200+** retinal images to differentiate between common diagnostic patterns while investigating the link between retinal and brain pathology by analyzing biomarkers

Technical Projects

Cardforme (github)   Top 5 Overall @ HackUIowa '23
- Developed a website that suggests the best credit cards based on previous bank transaction history
- Implemented secure access to bank transactions using the **Plaid API** with Link auth and fed generated JSON to the **Flask** backend
- Created a backtesting feature to calculate benefits of different credit cards based on spending categories and rewards percentages

Aly.so (github)   1st in Education & Top 3 @ HackNYU '23
- Developed an app, website, and Chrome extension that sends embarrassing texts to users' friends if they fail to stay on track
- Utilized **React Native**, **JavaScript**, **Firebase**, Apple Maps, and machine learning to create an app that syncs activity across different platforms, scans webpages to track user focus, and features a user-friendly interface to add tasks

Annote.live (github)   1st in Accessibility & 1st @ HackUIowa '22
- Developed a note-taking app and website with live transcription and summarization utilizing OpenAI's Whisper
- Designed UI with **NextJS** and **TypeScript**, and built RESTful APIs for note retrieval & upload to **MongoDB**
- Led the development of user authentication flow using next-auth for login and profile pages

Leadership

Mission INNO Biotech, President of Operations (innoinc.org)   Mar 2020 - May 2022
- Conducted weekly meetings for **60+** members about the intersection between biology, computer science, and engineering
- Mentored members with their annual biotech projects for the INNO Innovation Development Conference