

RISHAB GUPTA

✉ rishabg@umich.edu

🌐 [linkedin.com/in/rishab-gupta04](https://www.linkedin.com/in/rishab-gupta04)

🐙 github.com/rishabumich

Education

University of Michigan - Ann Arbor

Ann Arbor, MI

Bachelors of Science in Computer Science; Minor in Data Science

Expected April 2025

- **Relevant Coursework:** Introductory & Advanced Data Structures, Algorithms, Computer Organization, Database Management, Web Systems, Operating Systems, Machine Learning, Discrete Mathematics, Statistics & Data Analysis
- **Awards:** 1st place @ World MindX AI competition; 1st place @ StarHacks Hackathon

Academic Projects

FanFluence

- Ideated and created a product to create custom visual dashboards for stadium event managers to get personalized feedback on aspects of the stadium experience including security, food, music, and atmosphere; utilized **Streamlit**, **Radix**, and **Bootstrap** for the front-end UI; **X.com API**, **BERT LLM**, & **Pytorch** to scrape posts and perform **sentiment analysis**
- Used **Pandas** to organize data into CSV files for labeling, read in labeled CSV files and isolated sentiment scores on a -1, 0, 1 scale based on post relevance for given categories; **fine-tuned LLM** to provide **83.33%** accuracy on testing data
- Presented project at Hackalytics competition; received feedback from software leaders at Microsoft, Intel, and NSA; working on developing more scattered training data from a variety of stadium events to improve model accuracy

Blend AI

- Designed an AI system to generate DJ similar music mixes and developed a music centered social platform; implemented in a cross-platform application; expanding to web platforms and developing additional AI heuristics/data training models
- Utilized **Tone.js**, **Pydub**, **iOS AVFoundation**, and **Firebase Realtime Database** to manipulate audio and centralize streaming; web platforms built with **Node.js & React**; mobile application developed with **React Native**

SCBruins

- Created a mobile app for Santa Clara HS using **Swift 5/Xcode 10** which allows seamless access to school information; developed features such a live schedule, lunch menu, and staff directory; featured in the SCRoar & SVVoice newspapers
- Networked with school administration, ASB, and professionals in the mobile app development space; wrote detailed documentation & helper applications to allow for smooth maintenance of application by clubs and leadership
- Obtained **1200+ users (60% students)** within first month of release; expanded to **2000+ users (95% students)**; diagnosed and solved problems relating to server & database loads by implementing state listeners and utilizing **valgrind**

Experience

Borderless

Los Angeles, CA

Full Stack Software Engineer Intern

Apr 2024 - Present

- Created customer facing portal front-end & back-end implementing features such as live shipment updates, PDF auto-filling, and authentication; crafted custom component models for optimized client side rendering and SEO score
- Built front-end with **ReactJS** and **Tailwind CSS** and back-end with **Typescript**, **Node.js & PostgreSQL**; deployed on **AWS** using **Vite** for enhanced performance; **supporting 800 active users monthly**
- Implemented **RESTful API** routes and debugged with **Postman**; improved **response time by 10%** through comprehensive route optimizations. Enhanced database schema leading to a **30% reduction** in query load times

Quickwork Automation

Mumbai, MH

Software Engineer Intern

May 2021 - Sep 2021

- Built adapters for Dropbox, Paperform, and Memberstack; **utilized Postman HTTP debugging** to catch bugs related to memory leaks, user authentication; aided in development of front-end onboarding experiences for new customers
- Improved user retention rate by **31%** by implementing an easy-to-use drag and drop system to clients' custom workflow automation; deployed adapter on Quickwork platform impacting **30,000 users**; implemented **A/B tested** feedback

Activities & Leadership

V1 @ Michigan

Software Engineer

Aug 2023 - Present

- Ideated Happening to crowdsource student-run events with features like an interactive map & sponsored reward systems; pitched idea @ Michigan Business Competition; networked with VCs including Y Combinator, Neo, and Contrary
- Developed in **Javascript**; utilized **React**, **Node.js**, and **Bootstrap** for web hosting and front end; **Supabase Database** & built-in authentication to manage backend services; expanded application to mobile devices with React Native

Technical Skills

Languages: C++, Javascript, Python, Swift, Java, GoLang, HTML/CSS

Frameworks/Tools: React, Next.js, TailwindCSS, Radix UI, Bootstrap, Firebase, Supabase, Postman, Twint, BERT, Git, Unix, VSCode, Xcode, Clion, Debugging