

Dhruva Kumar

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Computer Science student at the University of Texas at Austin with experience building cross-platform applications downloaded by 3,000+ users.

EDUCATION

University of Texas at Austin

B.S. in Computer Science

Austin, TX

Aug. 2025 – May 2029

Cistercian Preparatory School

GPA: 4.0 Unweighted / 4.92 Weighted; SAT: 1570/1600

Irving, TX

Aug. 2021 – May 2025

Awards: Valedictorian, National Merit Scholar, AP Scholar with Distinction, Texas A&M Teams Math Competition (2nd in State)

SKILLS

Languages: Java, Python, JavaScript, TypeScript, Dart

Technologies: React (Web), React Native (Mobile), Flutter, Firebase, Next.js

EXPERIENCE

Software Engineer Intern

Reality5D

Oct. 2024 – Feb. 2025

Remote

- Built Mosaic Learn, an MVP React Native app to generate learning plans from text, images, or voice
- Integrated Gemini API via Firebase Cloud Functions for learning plan generation
- Configured and documented separate dev/prod environments for Firebase and Expo to expedite team onboarding

Analytics Intern

Sagiss

June 2024 – Aug. 2024

Irving, TX

- Revitalized a critical revenue report, debugging SQL and reconciling financial data to ensure 100% accuracy
- Partnered with account managers to redesign the report's UX for improved usability during client meetings
- Aided a team migration of wallboards to Power BI, consolidating 7 legacy SQL queries into 1

Math Instructor

Mathnasium KV

July 2023 – Sept. 2024

Irving, TX

- Instructed groups of 4-5 students aged 5-16, tailoring instruction for 100+ students
- Evaluated 30-50 pages of student work hourly, providing students and parents with verbal and written feedback

PROJECTS

MOOC Search - Agentic Course Recommendation System | *Pandas, LlamaIndex, FastAPI, Next.js* | [GitHub](#)

- Preprocessed 6,000+ course dataset using Pandas, filtering for free courses to prioritize accessibility
- Utilized AI (LLM) Agent with LlamaIndex to return relevant courses even from vague user queries
- Served recommender system via FastAPI backend and Next.js frontend

My Meds - Privacy-First Mobile Medication List App | *Flutter, SQLite* | [GitHub](#) | [App Store](#)

- Built a medication tracker using Flutter with fully-local SQLite database to ensure patient privacy
- Implemented drug search via FDA APIs to expedite medication entry
- Successfully scaled application to over 3,500 users

ImageBar - Menubar Image Tool for macOS | *SwiftUI, ImageIO* | [GitHub](#) | [App Store](#)

- Developed a macOS menubar app with a drag-and-drop interface using SwiftUI's MenuBarExtra API.
- Cut image conversion time by up to 75% versus using the native Preview app.
- Utilized the ImageIO framework for conversion to multiple formats and sizes.