

Ishan Vepa

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science

GPA: 3.68 – Dean's List, Sidney Goldin Scholarship Recipient

Atlanta, GA

Expected May 2026

- *Concentration:* Human-Computer Interaction
- *Relevant Coursework:* Data Structures & Algorithms, Object-Oriented Programming, User-Interface Design

EXPERIENCE

Undergraduate Research Assistant

Georgia Tech Sonification Lab and Design Studio

Aug 2024 – Present

Atlanta, GA

- Engineering an accessible and inclusive hurricane tracking interface utilizing NOAA-sponsored climate data
- Implemented WCAG-compliant interaction with sonification, tabbable elements, and screen-reader support
- **Skills:** Javascript, Highcharts API, GeoJSON, HTML, CSS, Figma

Augmented Reality Software Development Extern

Snap Inc.

Sep 2024 – Nov 2024

Remote

- Developed **3+ dynamic 2D/3D AR filters** themed around Premier League Soccer using Snap Lens Studio
- Increased user retention from **5 to 15 seconds** by leveraging the Lens Scripting API for sentiment-driven effects
- Iterated on UX components in Figma with Snap developers to ensure alignment with marketing strategy
- **Skills:** Javascript, Figma, Snap AR Lens Studio

Software Engineering Intern

Datamaxx Group

May 2024 – Aug 2024

Tallahassee, FL

- Reduced user identity verification time from **1 minute to 20 seconds**, by developing an automated ID parsing and user face verification service in ASP.NET with AWS Textract and Rekognition API
- Enhanced user security screening efficiency for **100+ vendors** by implementing a QR code visitor check-in system
- Authored comprehensive documentation on both services for use by team of **20+ developers**
- **Skills:** C#, ASP.NET MVC, jQuery, HTML, CSS, SQL, AWS API

Undergraduate Researcher, Data Analytics Team Leader

Georgia Tech Vertically Integrated Project

Aug 2023 – Dec 2024

Atlanta, GA

- Refactored sponsor funding allocation for principal investigators by parsing CSV data into Tableau dashboards to accommodate **\$1.3 billion** in annual research
- Leveraged Pandas to parse **150,000+ research grants** with **50 parameters** into a structured CSV format
- **Skills:** Python, Pandas, Figma, Excel, Tableau

PROJECTS

Senserfy: Spotify Dashboard & AI Recommendations | Next.js, TypeScript, Python, Flask, Spotipy, FAISS

- Built dashboard using Spotify API to display **10 listening metrics**, including top artists, genres, and tracks
- Developed **RAG AI** song curation tool that analyzes musical sentiment and recommends songs using **FAISS**

Market Maven: Detailed Stock Analysis App | React Native, TypeScript, Python, Flask

- Quantifies stock valuation into "**Maven Score**" by analyzing social sentiment, ESG data, and technical indicators
- Utilized Bavest **Rest API** to retrieve and process stock price history and market news relevant to price changes

Computational Analysis of Contemporary Music | Python, BeautifulSoup

- Web-scraped **100+ songs** from the Billboard Hot 100 over **10 years**, analyzing trends in pop music
- Processed **340+ data points** in spreadsheets using Python (BeautifulSoup, urllib, openpyxl) to generate insights

TECHNICAL SKILLS

Languages: Java, Python, C#, C, JavaScript, SQL, MySQL HTML, CSS, TypeScript

Technologies: ASP.NET MVC, React.js, React Native, Next.js, jQuery, Flask, BeautifulSoup, Pandas, FAISS, JUnit

Developer Tools: Git, Visual Studio, Android Studio, AWS Amplify, Accurev SCM

Design/Visualization Tools: Figma, Adobe Photoshop, Tableau