# Ishan Vepa

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## EDUCATION

**Georgia Institute of Technology** — Atlanta, GA
*Bachelor of Science in Computer Science* — *Expected May 2026*
GPA: 3.68 – Dean's List, Sidney Goldin Scholarship Recipient

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

**University of Oxford** — Oxford, UK
*Study Abroad Program in Computer Science Ethics and Psychology* — *May 2023 – Aug 2023*

## EXPERIENCE

**Undergraduate Research Assistant** — Aug 2024 – Present
*Georgia Tech Sonification Lab and Design Studio* — *Atlanta, GA*

- Leveraged NOAA climate data to develop sea level data visualizations to enhance accessibility and inclusivity
- Utilized Highcharts to improve climate visualizations through graph sonification and WCAG compliance
- **Skills**: Javascript, Highcharts, GeoJSON, Figma

**Software Engineering Intern** — May 2024 – Aug 2024
*Datamaxx Group* — *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, jQuery, HTML, CSS, SQL, AWS API

**Undergraduate Researcher, Data Analytics Team Leader** — Aug 2023 – Dec 2024
*Georgia Tech Vertically Integrated Project* — *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

**Founder, Director of Post-Production, Web-Development** — Jul 2019 – Aug 2022
*Generation Z Media* — *Tallahassee, FL*

- Developed website/blog with **500,000+ impressions** and **5% CTR** in 1 year by optimizing sitemaps and SEO
- Initiated and managed **25 producers** across **4 state chapters** (Florida, Connecticut, Michigan, Oregon)
- Produced documentaries featured in local press: Tallahassee Democrat, Tallahassee Magazine
- **Skills**: HTML, CSS, JavaScript, Figma

## 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, C, C#, Python, JavaScript, SQL, MySQL HTML, CSS, TypeScript
**Technologies**: ASP.NET, 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