

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

Aug 2024 – Present

Georgia Tech Sonification Lab and Design Studio

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

Sep 2024 – Nov 2024

Snap Inc.

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

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 MVC, 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

PROJECTS

AI Academic Search Engine | *Next.js, Python, LangChain FAISS, Flask, Pandas, Semantic Scholar API*

- Built an AI academic search engine to perform **LLM-based** similarity search beyond keyword matching
- Engineered a scalable **RAG** pipeline that ingests papers via the Semantic Scholar API into FAISS vectorstore
- Designed **REST** endpoints for ingestion and similarity queries, enabling vector search for **1,000,000+ abstracts**

Dungeon Crawler Android Game | *Java, Android Studio, XML*

- Built a "Luigi's Mansion" dungeon crawler Android game with **5+ levels** and **5 enemies**
- Using **MVVM architecture** and implemented software design patterns: Strategy, Observer, Singleton, Factory

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, Flask, BeautifulSoup, Pandas, LangChain FAISS, JUnit

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

Design/Visualization Tools: Figma, Adobe Photoshop, Tableau