

ADITYA TAPSHALKAR

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EDUCATION

Master of Science in Computer Science

Georgia Institute of Technology | Atlanta, GA

- **Concentration:** Interactive Intelligence

Expected May 2022

GPA: 4.00

Bachelor of Science in Computer Science

Georgia Institute of Technology | Atlanta, GA

- **Concentrations:** Intelligence, People
- **Minor:** Health and Medical Sciences
- **Coursework:** Artificial Intelligence (AI), Computer Vision (CV), Machine Learning (ML), Robotics and Perception, User Experience
- **Honors and Awards:** High Honors, Zell Miller Scholar, President's Undergraduate Research Award (PURA)

May 2021

GPA: 3.50

EXPERIENCE

Product Innovation Intern

Elavon Inc. | Atlanta, GA

- Spearheaded front-end development of cryptocurrency-based vending machine using Ionic React
- Established Ethereum-backed blockchain cryptocurrency unique to Elavon with Metamask
- Integrated front-end with vending API and incorporated smart contracts to ensure secure and decentralized transactions

January 2020 – May 2020

PURA Undergraduate Researcher (Audiovisual Spatialization)

Georgia Tech Sonification Lab | Atlanta, GA

- Studied participants' abilities to locate sounds in virtual reality (VR) environments generated in Unity
- Generated resulting point-cloud heatmap of coordinates of participant-localized sounds with Unity and HTC Vive
- Collaborated with graduate-level researcher to extrapolate action-object congruency bias through studied trends

May 2019 – December 2019

Undergraduate Research Assistant (Automated Driving and Lane Detection)

Georgia Tech Sonification Lab | Atlanta, GA

- Measured and analyzed participants' confidence in lane-assisted automated driving through research studies
- Created application in JavaFX gauging participants' attention while operating driving simulator
- Collected and analyzed notes and data from driving-style focus groups to design heads-up displays for thrill-seeking drivers

January 2019 – May 2019

PROJECTS

Foodwise: Designed and constructed a food information application using Firebase and Flutter

Spring 2021

Chest X-ray CV Detector: Utilized CV techniques on X-rays to detect chest conditions using Python and Keras

Fall 2020

VonGo: Assembled a cryptocurrency-backed vending machine for Elavon using Metamask and Ionic React

Summer 2020

Audiovisual Spatialization VR Map: Developed a visualization of research data in VR to discover trends using Unity

Fall 2019

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, Dart, Kotlin, C#, JSX, HTML, XML, CSS, Sass, LC-3 Assembly, C

Frameworks, Libraries, and Services: ReactJS, Node, Git, Flutter, Firebase, Django, Microsoft Azure, Amazon Web Services (AWS)

Hardware: miniSim Driving Simulator, HTC Vive, Anki Cozmo

Additional Skills: Unity, Roblox Studio, MCreator, Adobe Creative Cloud, Adobe XD, Figma, Miro, Audacity, Vegas Pro, Inkscape, Trello

ADDITIONAL EXPERIENCE

Head Graduate Teaching Assistant

Introduction to Cognitive Science (CS 3790 and 6795) | Georgia Institute of Technology

- Supervise two graduate teaching assistants and coordinate weekly meetings to discuss upcoming lectures and assignments
- Arrange reading material and course resources on metacognition for classes of 36 graduate and 60 undergraduate students
- Assess students' performance through comprehensive class quizzes, breakout sessions, and individual and collaborative projects

January 2021 – Present

Code Sensei (Instructor)

Code Ninjas | Atlanta, GA

- Facilitate Roblox and Minecraft environment and modification development projects for classes of 10-20 elementary school students
- Reinforce Code Ninjas policies and communicate with parents to ensure safety and satisfaction of all students and other instructors
- Direct attention to students in need of assistance to guarantee engaging recreational and educational experiences for all

June 2021 – Present