

# ADITYA TAPSHALKAR

aditya.taps@gatech.edu | (404) 200 5686 | linkedin.com/in/adityatapshalkar

## EDUCATION

---

Georgia Institute of Technology, Atlanta, GA

*Expected May 2021*

Bachelor of Science in Computer Science, Health and Medical Science Minor

**Major GPA:** 3.78

- **Concentrations:** Intelligence, People
- **Honors:** Zell Miller Scholar, President's Undergraduate Research Award (PURA) Recipient
- **Coursework:** Artificial Intelligence, Computer Vision, Robotics and Perception, Cognitive Science, User Interface Design, Game AI

## TECHNICAL SKILLS

---

- **Programming Languages:** Java, Python, JavaScript, TypeScript, JSX, HTML, XML, CSS, Dart, Kotlin, LC-3 Assembly, C, C#
- **Frameworks:** ReactJS, Node, Git, Flutter, FireBase, Django, Microsoft Azure
- **Hardware:** miniSim Driving Simulator, HTC Vive, Anki Cozmo
- **Additional Skills:** Adobe Photoshop, Adobe XD, Figma, Miro, Gimp, Audacity, Vegas Pro, Inkscape, Trello

## EXPERIENCE

---

Elavon Inc. – Atlanta, GA

*January 2020 – May 2020*

Intern | Product and Innovation

- Spearheaded front-end development of cryptocurrency-backed 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

Georgia Tech Sonification Laboratory – Georgia Institute of Technology

*May 2019 – December 2019*

PURA Undergraduate Researcher | Audiovisual Spatialization

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

Georgia Tech Sonification Laboratory – Georgia Institute of Technology

*January 2019 – May 2019*

Undergraduate Research Assistant | Automated Driving and Lane Detection

- Measured and analyzed participants' confidence in lane-assisted automated driving
- Created application in JavaFX gauging participants' attention while operating driving simulator
- Collected notes and data during driving-style focus groups and analyzed responses to create a HUD for thrill-seeking drivers

## PROJECTS

---

**Chest X-ray CV Detector** – Performed computer vision techniques on X-rays to diagnose chest conditions

*Fall 2020*

**Covid-Events** – Designed and integrated front-end for app aiding in planning of events during COVID-19

*Summer 2020*

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

*Spring 2020*

**Congruency Bias Point-cloud Map** – Visualized research data to discover trends using Unity and HTC Vive

*Fall 2019*

**Automated Driving HUDs** – Developed a HUD for various driving styles using focus group data

*Spring 2019*

**Space Traders** – Constructed a complex game with a small team using Java, XML, Android Studio, and Kotlin

*Spring 2019*

## ADDITIONAL EXPERIENCE

---

Introduction to Cognitive Science (CS 6795)

*January 2021 – Present*

Undergraduate Teaching Assistant – Georgia Institute of Technology

- Revise and organize reading material and additional course resources for class of 56 graduate students
- Facilitate in-class discussions between students and discuss advanced topics on high-level meta-cognition
- Observe and evaluate students' performance through comprehensive class quizzes and individual and collaborative projects

Introduction to Research (COS 2000)

*August 2018 – December 2019*

Team Leader and Teaching Assistant – Georgia Institute of Technology

- Prepared classroom assignments and activities for small group of eight students and assessed students' performance
- Assumed a mentor role for students wanting to become involved with research in college
- Led conversations about various topics of research and shared previous experiences with students