ADITYA TAPSHALKAR

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EDUCATION

Georgia Institute of Technology, Atlanta, GA ***Expected May 2021***

Bachelor of Science in Computer Science, Health and Medical Science Minor **GPA**: 3.47, **Major GPA:** 3.88

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

TECHNICAL SKILLS

- **Programming Languages and Frameworks:** Java, Python, ReactJS, Kotlin, JavaFX, Assembly, C, C#, LaTeX, JS, HTML, CSS
- **Programming Software:** IntelliJ, Webstorm, PyCharm, Android Studio, Sublime, Git, GitHub, Unity
- **Hardware:** miniSim Driving Simulator, HTC Vive, Anki Cozmo
- **Additional Skills:** Microsoft Azure, Adobe Photoshop, Adobe XD, Miro, Gimp, Audacity, Vegas Pro, Inkscape, Trello

EXPERIENCE

Elavon – *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
- Took notes 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*

LEADERSHIP

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
- Served as guidance for students wanting to become involved with research in college
- Led conversations about various topics of research and shared previous experiences with students

Stamps Health Services Ambassadors *August 2017 – May 2018*

College Prevention Program Committee Leader – Georgia Institute of Technology

- Met with committee members regularly to discuss drug awareness initiatives on campus
- Volunteered at Georgia Tech Health Initiatives booths to promote healthy lifestyles
- Aided in the management and hosting two campus-wide events advocating drug awareness