Tanmoy Panigrahi

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Education

Georgia Institute of Technology | BS in Computer Science   **Graduating May 2022**
- Concentrations: Artificial Intelligence & Human-Computer Interaction (GPA - 3.90/4.00)
- Leadership & Volunteering: President of GT iOS Club, Co-founder and Secretary of Mixed Reality Club, Omicron Delta Kappa External Relations Chair, Freshman Mentor for Grand Challenges Program
- Faculty Honors, Dean's List (Fall 2018 - Present)

Experience

Apple Inc. - Software Engineering Intern   **May 2021 - Aug 2021**
- Programmed analytics to be logged for the new App Clip Card and added UI improvements in iOS 15
- Prototyped and developed two currently unreleased features
- 1 of 8 interns selected to present to Senior VP of Software Engineering

College of Computing at Georgia Tech - Head Teaching Assistant   **Aug 2020 - Present**
- Helping 350+ students during lectures and creating instructional content online (Link to Youtube)
- Instructing in one-on-one sessions, grading, formulating assessments, and working with 15 other TAs

NCR Corporation: Engage Mobile Team - iOS - Software Engineering Intern   **Jun 2020 - Aug 2020**
- Developed an App Clip for iOS 14 based on NCR's existing whitelabel restaurant app to enable customers to place orders without downloading full iOS apps using SwiftUI, Swift 5, Postman, Charles, and in-house APIs
- Prototyped the product to allow for 200,000+ daily orders and to be used by 10+ companies
- Designed a POC AR app to improve customer engagement using ARKIT and Reality Composer

Contextual Computing Group at Georgia Tech - Undergraduate Researcher   **Aug 2019 - Present**
- Developing the world's first Symbiotic AI using Computer Vision for error detection in order picking using OpenCV, Mediapipe version Alpha, C++, and collected and cleaned a training dataset of 5,000+ picks [Link]
- Performed a comparative study of the Magic Leap One, Microsoft Hololens, and Google Glass for sparse order picking and created their AR applications using Unity & Android Studio under Dr Thad Starner [Link to Publication] [Thesis Available on Request]

Selected Projects

MeetAssistant (*Python, PyTorch*)   **Jan 2021 - June 2021**
- Developing an NLP-based software assistant for NER and extracting relevant data from meeting audio to automatically set up calendar invites and tasking for follow-up meetings and events

HeimdallR (*Java, Google-Cloud, Tensorflow, Google-Vision*)   **Oct 2020 - Dec 2021**
- Engineered a Mixed-Reality-based solution that effectively aids kids with autism spectrum disorders in learning communication by reinforcing visual cues through object detection.

SmartPayAR (*Java, Firebase, NCR-Payments, Google-Vision*)   **Nov 2019**
- Engineered a next-generation retail solution for instant payments and recommendations of similar products in a store through barcode scanning on an AR app for Android and Google Glass

WondARwho (*C#, Unity, Microsoft - Hololens, Azure, ArcGIS*)   **Oct 2019**
- Collaborated to create an augmented reality social media app using facial recognition based on Azure Cognitive Services, featuring 3D maps based on ArcGIS models, and overlaying user profiles on a Unity application for the Microsoft Hololens

Technical Skills

- Languages: Advanced - Java, Swift, Objective-C, Python | Proficient - C#, C++ | Familiar: C, Kotlin
- Tools: XCode, Android Studio, Unity, Git, JavaFX, Docker, Jekyll, PyTorch, OpenCV, MySQL, Tensorflow

Honors and Awards

- Olympiads: Indian Computing Olympiad, Indian Mathematical Olympiad qualifications (~ Top 100 in India)
- Hackathons: 2nd Best Overall Hack at Hack GSU Fall 2019; Digital Medicine Track Winner at HackGT 2020
- Other: State Badminton Champion, National Film Festival - Best Student Music Composer Award