

Sai Siddartha Maram

Portfolio : <http://siddu1998.github.io/>
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EDUCATION	University of California, Santa Cruz, September 2021-September 2026 <i>Ph.D. Student, Department of Computational Media</i> <ul style="list-style-type: none">• Department Fellowship, NSF Project Funding (2021-2022)• Graduate Research Assistant (2021-2022)• UX, Game Motivation Models, Player Modeling, Qualitative Research
	Thapar Institute of Engineering and Technology June 2016 - July 2020 <i>Bachelor of Engineering (B.E), Computer Engineering</i> CGPA: 9.05/10.00
INTERNSHIPS	Meta (Facebook), USA June 2022 - September 2022 <i>Areas : Qualitative UX</i> <i>Advisor: Dr.Zachary Lamm</i> <ul style="list-style-type: none">• Conducted User Interviews with Facebook users to strategize the product for the future of Facebook's <i>Top of Home</i>.• Executed remote Co-Design activities with Facebook users to generate design principles and new experiences for Facebook's <i>Top of Home</i>.• Partnered with Leadership, Data Science, and Product Design (XFNs) to develop prototypes for futuristic experiences on Facebook's <i>Top of Home</i>.• Developed a plan to push the prototypes for development and production in the next quarter.
	Invento Robotics, India June 2018 - August 2018, July 2020 - May 2021 <i>Areas : Qualitative UX, HRI, HCI, Software</i> <i>Advisor: CEO Mr.Balaji Vishwanthan</i> <ul style="list-style-type: none">• Conducted User Interviews with Stakeholders at various stages of a Robot Deployment pipeline.• Conducted Card Sorting to develop an Information Architecture module for Robotic Fleet management portals.• Conducted Ethnographic Studies to understand the synergy between robots and humans in the Hospitality and Healthcare sectors
	Georgia Institute of Technology, USA (GeorgiaTech) June 2019 - Sep 2019 <i>Areas : Qualitative UX, Software, Computer Vision, LiDAR</i> <i>Advisor: Prof.Yi-Chang Tsai (GeorgiaTech)</i> <ul style="list-style-type: none">• Performed User Interviews with Research stakeholders for designing tools for LiDAR data manipulation.• Developed a platform for 2D images and 3D point cloud registration. Conducted Moderated Usability tests on the developed platform.
PUBLICATIONS	AstraVerse: Establishing a Culturally Sensitive Framework for Integrating Elements from Mythological Backgrounds <i>IFIP-ICEC 2022, Germany</i> <ul style="list-style-type: none">• Conducted Participatory design workshops to understand the creative process behind the creation of Game narratives, Game Mechanics and Game Avatars.• Conducted User Interviews with cultural stakeholders to establish an acceptable representation of cultural elements in video games.

- Conducted **Card Sorting** with game designers to visually classify avatars from mythology and also a **Card Sorting** session with cultural stakeholders to organize game mechanics of mythological characters.
- Used **Thematic Analysis** to finally establish a design taxonomy which provides a balance between engagement and being culturally acceptable.

Gaming Beyond Mortal Borders *ACM CHI 2022 (Workshop), Germany*

- Conceptualizing how mythical characters can act as protagonists and NPCs in gaming.
- Establishing a position on the representation of Cultural entities in Games.

Gender, Language and Communication *ACM CHI 2022 (Workshop), USA*

- Conducted **Participatory Design Workshops** to understand how people have inherent gender biases.
- Explored professional communication as a medium to study gender biases.
- Conducted **A/B tests** to study the influence of Game Mechanics, Narrative, and Design on bringing out gender biases.

A Data-driven Design of AR Alternate Reality Games to Measure Resilience *HCII'22, Online (BEST PAPER)*

- Conducted **Diary Studies** to understand the lifestyle and pain points of first-year undergraduates in UCSC.
- Developed **personas** of first-year undergraduate students.
- Developed and Designed puzzle games based on these personas to capture resilience.
- Conducted **usability tests**, **A/B** tests of AR applications developed for puzzle games.

Generating Graphs Via Images: Cricket as a test-case

ACM Multimedia 2020 (workshop), Online

- Conceptualized treating a cricket match as a graph problem.
- Automated the generation of graphs through live broadcast. Each edge corresponds to clips of events from the cricket match
- Proposed a querying engine for the graph to extract events from the cricket match.

Images to Signals, Signals to Highlights

IEEE GLOBECOM 2020, Taiwan

- Proposed an innovative solution, to identify events from cricket matches.
- Automated the process of generating highlights. We achieve a wall clock time of 3 minutes to generate highlights of a cricket match; this is a benchmark in the field of highlight generation in cricket.

Neural Network and ROS based Threat Detection and Patrolling Assistance

IEEE ICACCP 2019, India (BEST PAPER)

- Established algorithms on ROS for indoor threat surveillance.
- Trained Object Detection algorithms for weapon detection.

PATENT

A Personal Safety Device and Method Thereof

Patent Application ID (India): 201911005811 (filed)

The prototype involved developing cognitive textile for the first time with computer vision capabilities for protecting women against physical abuse.