Shreyas Nisal

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EXPERIENCE

HEARTY ADVENTURES IN FOOD AND PLAY LAB | RESEARCH INTERN
Mar 2023 – Jul 2023 | PI: Dr. Rohit Ashok Khot
- Developed a smartphone game designed to encourage real-world activities that support human gut health
- Contributed to the design of the app in accordance with the research goals

TWILIO | SOFTWARE ENGINEER
Aug 2022 – Feb 2023
- Working in the Auth team on the Role-Based Access Control (RBAC) platform
- Developing an internal tool and API endpoints that can be integrated with other Twilio products

MIT MEDIA LAB | RESEARCH INTERN
Feb 2022 – Jul 2022 | PI: Prof. Pattie Maes
- Worked with the Fluid Interfaces group on the Joie project for anxiety management using Affective Brain-Computer Interfaces
- Designed and developed a neurofeedback training protocol using electroencephalography

EXERTION GAMES LAB | RESEARCH INTERN
May 2021 – Jan 2022 | PI: Prof. Florian 'Floyd' Mueller
- Explored Electrical Muscle Stimulation (EMS), a body actuating technology, for novel interactions between users and systems
- Designed social bodily games using EMS to study shared agency between multiple users and the EMS system

TWILIO | SOFTWARE ENGINEERING INTERN
Jun 2021 – Jul 2021
- Contributed to the Role-Based Access Control (RBAC) platform using the vaadin framework
- Developed API endpoints for the access manager service (XMS)

PUBLICATIONS AND PRESENTATIONS

UIST 2023 FULL PAPER
Joie: a Joy-based Brain-Computer Interface (BCI)
ACM DIGITAL LIBRARY

CHIPLAY 2023 FULL PAPER
Fused Spectatorship: Designing Bodily Experiences Where Spectators Become Players
ACM DIGITAL LIBRARY | YOUTUBE

CHIPLAY 2022 WORK-IN-PROGRESS
TouchMate: Understanding the Design of Body Actuating Games using Physical Touch
ACM DIGITAL LIBRARY | YOUTUBE

INVITED SPEAKER
QTalks about Quantum Games, QTurkey (Dec 2020): Gamifying Quantum Computation
YOUTUBE

INVITED SPEAKER
National Conference of Association of Otolaryngologists of India (Jan 2020)
VTalk, An App for the Deaf

PROJECTS

QLOGIC | GOOGLE PLAY
Quantum computing puzzle game developed in React Native

SPEECH PROGRAMMER | GITHUB | YOUTUBE
Open-source web application to convert speech commands to C code

MEDNET OUTREACH | GOOGLE PLAY | APPLE STORE
Telemedicine app developed using the Twilio Video API with the Mednet Labs team

VOICE QUIZ | GITHUB | YOUTUBE
Voice-controlled quiz app developed in React Native

EDUCATION

SMU GUILDHALL
MASTER OF INTERACTIVE TECHNOLOGY IN DIGITAL GAME DEVELOPMENT (SPECIALIZATION: SOFTWARE DEVELOPMENT)
2023 - 2025

BITS PILANI- GOA
B.E. COMPUTER SCIENCE
M.SC. PHYSICS
2017 - 2022

SKILLS

LANGUAGES
C/C++ • Java
JavaScript • HTML/CSS
SQL • Python

FRAMEWORKS
React Native • Flutter • MNE • Vaadin Dropwizard • Spring • Spring Boot • Swing/AWT • Bootstrap

RESEARCH SOFTWARE
Neuroelectrics Instrument Controller (NIC2) • LabRecorder • Empatica E4 Streaming Server • PsychoPy

TEACHING

Teaching Assistant
Computer Programming
Mar 2021 - June 2021
Jan 2020 - May 2020
Jan 2019 - May 2019

Teaching Assistant
Object Oriented Programming
Aug 2020 - Dec 2020
Jan 2020 - May 2020

YouTube Tutorials
Linux Fundamentals • C Programming Python • Object-Oriented Programming React Native Windows • Verilog • Theory of Computation • Compilers • Game Development (Unity)