Shreyas Nisal

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EXPERIENCE

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 – July 2022 | PI: Prof. Pattie Maes
- Worked with the Fluid Interfaces group on the KALM 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
June 2021 – July 2021
- Contributed to the Role-Based Access Control (RBAC) platform using the vaadin framework
- Developed API endpoints for the access manager service (XMS)

HEXA BITCOIN WALLET | React Native Intern
May 2020 - July 2020 | Remote
- Worked on the front-end of the Hexa Bitcoin Wallet
- Added functionality for QR scanning for bitcoin transactions

MEDNET LABS | Full-Stack Development Intern
Dec 2018 - May 2019
- Worked as the sole React Native developer on two apps
- Developed modules in Spring and Hibernate for self-registration kiosks at hospitals

MEDNET LABS | Full-Stack Development Intern
May 2018 - June 2018
- Developed a web-based voice assistant for hands-free filling medical examination forms
- Added customizable examination forms and a training module for pronunciation variations

PROJECTS

QLOGIC
Quantum computing puzzle game developed in React Native

SPEECH PROGRAMMER | Demo | 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

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)

PUBLICATIONS AND PRESENTATIONS

CHIPLAY 2022 EXTENDED ABSTRACTS
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

EXTRA-CURRICULARS

Volunteer
Nirmaan Goa Chapter