

Shreyas Nisal

shreyasnisal@gmail.com • shreyasnisal.com • GitHub • LinkedIn • YouTube • Medium

EXPERIENCE

TWILIO | SOFTWARE ENGINEER

Aug 2022 – present

- 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 | [GOOGLE PLAY](#)

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

UNITY3D GAMES | [GOOGLE PLAY](#)

Hypercasual games for handheld devices

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