Shreyas Nisal

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EXPERIENCE

MIT MEDIA LAB | Research Intern
Feb 2022 – present | Remote | PI: Prof. Patricia Maes
- Working with the Fluid Interfaces group on Affective Brain-Computer Interfaces (aBCI)
- Designing neurofeedback systems using Electroencephalography (EEG)

EXERTION GAMES LAB | Research Assistant
May 2021 – Jan 2022 | Remote | PI: Prof. Florian 'Floyd' Mueller
- Studying the use of Electrical Muscle Stimulation (EMS) in Human-Computer Interaction (HCI)
- Designing social bodily games using EMS

TWILIO | Software Engineering Intern
June 2021 – July 2021 | Remote
- Contributed to the Role-Based Access Control (RBAC) platform using the vaadin framework
- Developed API endpoints for the access manager service (XMS)

BITHYVE | React Native Intern
May 2020 - July 2020 | Remote
- Worked on the Hexa wallet app for bitcoin storage and transactions
- Added functionality for QR scanning for bitcoin transactions

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

OAKLAND SYSTEMS | Full-Stack Development Intern
May 2018 - June 2018 | Nagpur, India
- Developed a voice-controlled web application for hands-free medical examination forms
- Used a MySQL database with RESTful services to store pronunciation variations

PROJECTS

QLOGIC | Google Play
Quantum computing puzzle game developed in React Native

SPEECH PROGRAMMER | Demo
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

VTALK | Google Play
React Native app to facilitate communication between hearing-impaired people and speaking-hearing people

VOICE QUIZ | Google Play
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 • Vaadin
Dropwizard • Spring • Spring Boot
Swing/AWT • Bootstrap

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

HONORS

INVITED SPEAKER
Quantum Games Hackathon, QTurkey (Dec 2020)
QLogic: Gamifying Quantum Computation

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

EXTRA-CURRICULARS

Volunteer
Nirmaan Goa Chapter

Vice Captain
BITS Goa Badminton Team (2019-2020)