

NIRANJAN GIRHE

✉ girhe.com 🌐 github.com/niranjangirhe
✉ niranjangirheindia@gmail.com
☎ +91-7768989938
scholar.google.com/citations?user=ymhd_EQAAAAJ



EDUCATION

Bachelor of Technology in Computer Engineering MIT Academy of Engineering, Pune, India

📅 2019 – 2023

- CGPA: **9.74/10**
- JEE Main percentile: 94.55%

INTERNSHIP

Research and Development in Serious Games Ontario Tech University, Canada (Mitacs GRI funded program)

📅 May 2022 – Aug 2022

Adv: Jeremy Bradbury

- Designed and implemented serious games (Threaded Paws)
- It help students grasp concepts and pitfalls of concurrency like deadlocks, data-race, etc
- Developed on Unity with form-based modular level designing

Unity Krita C# Audacity GitHub 2D Animation

Web-Based Elective Allocation System

MIT Academy of Engineering

📅 June 2021 – August 2021

Adv: Mrs. Ranjana Badre

- Automatization of the manual elective allocation process
- Built automatic elective allocation algorithm
- Developed web-portal based interface with user and admin side

HTML Javascript Firebase Firestore database CSS

Game Development

Salvation Games

📅 June 2020 – August 2020

Adv. Mr. Harshit Solanki

- Designed and development a Hyper casual Android game.
- Developed using C in Unity. Engineered movements using Physics concepts of Newton's law of motion, etc

Unity Blender Krita C# Audacity Ragdoll

TECHNICAL SKILLS

Unity C++ C# Android Studio Java Kotlin Python
AIML HTML Javascript Git & GitHub Unreal MySQL
MongoDB Adobe XD Blender 3D Animation NodeJS

CERTIFICATIONS

- 🌟 AWS Certified Cloud Practitioner
- 🌟 Microsoft Azure AI fundamental (AI 900)
- 🌟 Microsoft Azure fundamental (AZ 900)

POSITION OF RESPONSIBILITY

Animix Club – Founder and Club Head

📅 Oct 2020 – Ongoing

Android Study Jam Facilitator and Educator at GDSC MITAOE

📅 Dec 2021 – Jan 2022

Core Member at TEDxMITAOE

📅 Nov 2019 – Jan 2022

ACHIEVEMENTS



Winner - Smart India Hackathon

- Awarded with prize money of **100,000 INR**
- Developed web-portal for labour complaint filing and handling



Winner - UNESCO-India-Africa (UIA) Hackathon 2022

- Awarded with **300,000 INR prize money by the Education Minister and the Vice President of India**
- Soil health report generation in Android app based on image processing and deep learning
- Team consisted of 4 different African nation and was formed spontaneously.



1st rank in HackerRank Python Challenge

- Awarded with **3,000 INR**
- Fastest solver of 6 competitive programming problems

RESEARCH PROJECTS

Smart Traffic System to Optimize the City Traffic MIT Academy of engineering

📅 Jul 2021 – Ongoing

Adv: Dr. Avinash Bhute

- Estimation of optimal traffic signal timings for smart traffic control
- Used unity game engine to simulate real life traffic

Unity C# Python Git Firestore database IoT

Shetkari Mitra - Mobile App for Farmers

MIT Academy of engineering

📅 Aug 2020 – Mar 2021

Adv: Dr. Avinash Bhute

- Designed Android application to assist farmers
- Consist of discussion forum, expert connect, information, etc.
- Presented and published in Springer's ICCDN-2021 conference

Android studio Firebase JSON Parsing Picasso

PROJECTS OUT OF HOBBY

NGAnime - Android Application

- Developed an android application which compiles online Anime streaming platforms at one place.
- Implemented features like sharing, export and import data.

Android studio Java JSON Git Google Analytic

Killing Tech - Indie Multiplayer PC and Mobile Game

- Developed 3D FPS multiplayer Game with low poly graphics using unity and blender.
- Used Photon 2 engine for networking.
- Experienced in Rigid body, fluid, cloth, particle and fire simulations and animation in Blender open source software.

Unity Blender Rigid body Sim C# Audacity

Split It - split group expenses Web Portal

- Developed a web app to split common expenses within friends

Firebase HTML CSS Javascript

PUBLICATIONS

Conference Proceedings

Girhe, Niranjan et al. (2023). "Shetkari Mitra App—An Application to Maximize the Profit of Farmers". In: *Advances in Communication, Devices and Networking*. Ed. by S Dhar et al. Singapore: Springer Nature Singapore, pp. 111–127. ISBN: 978-981-19-2004-2.

https://link.springer.com/chapter/10.1007/978-981-19-2004-2_10