NIRANJAN GIRHE

✉ niranjangirheindia@gmail.com
📞 +91-7768989938
🔗 girhe.com
in linkedin.com/in/niranjan-girhe
🔗 github.com/niranjangirhe
G scholar.google.com/citations?user=ymhd_EQAAAAJ
</> codechef.com/users/niranjangirhe

EDUCATION

Bachelor of Technology in Computer Engineering
MIT Academy of Engineering, Pune, India   📅 2019 – 2023
- CGPA: **9.74/10**
- JEE Main percentile: **94.55%**

Secondary & Higher Secondary   📅 2010 - 2019
- XII HSC Science (Feb 2019): **73.08%**
- X SSC (Mar 2016): **83.4%**

EXPERIENCE

Research and Development in Serious Games Intern   Link
Ontario Tech University, Canada (Mitacs GRI funded program)
📅 May 2022 - Aug 2022   Adv: Jeremy Bradbury
- Designed and implemented Serious games (Threaded Paws)
- Help users grasp concepts of concurrency and its pitfalls
- Developed on Unity with form-based modular level designing

`Unity` `Krita` `C#` `Audacity` `GitHub` `2D Animation`

Elective Allocation System Full Stack Developer   Link
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 Developer   Link
Salvation Games
📅 June 2020 - August 2020   Adv. Mr. Harshit Solanki
- Design & development of a Hyper casual mobile game using Unity
- Engineered movements using concepts of Mechanics

`Unity` `Blender` `Krita` `C#` `Audacity` `Ragdoll`

RESEARCH PROJECTS

Smart Traffic System to Optimize the City Traffic   Link
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   Link
MIT Academy of engineering
📅 Aug 2020 – Mar 2021   Adv: Dr. Avinash Bhute
- Designed Android application to assist farmers
- Consists of discussion forum, expert connect, information, etc
- Presented and published in Springer's ICCDN-2021 conference

`Android studio` `Firebase` `JSON Parsing` `Picasso` `AWS`

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

Team Leader at TEDxMITAOE
📅 Nov 2019 – Jan 2022

ACHIEVEMENTS

🏆 **Winner - UNESCO-India-Africa (UIA) Hackathon**   Link
- 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.

🏆 **Winner - Smart India Hackathon**   Link
- Awarded with prize money of **100,000 INR**
- Developed web-portal for online labor complaint handling

🏆 **1st rank in HakkerRank Python Challenge**
- Awarded with **3,000 INR**
- Fastest solver of 6 competitive programming problems

🏆 **Completed Learn to earn google cloud challenge**

🏆 **Completed Google cloud Diwali challenge**

🏆 **Completed 30 days with Google cloud**   Link

PROJECTS OUT OF HOBBY

NGAnime - Android Application   Link
- Developed an android application which compiles online Anime streaming platforms at one place with sharing and keep eye feature

`Android studio` `Java` `JSON` `Git` `Google Analytic`

Killing Tech - Indie Multiplayer PC and Mobile Game   Link
- Developed 3D FPS multiplayer game, Used Photon 2 engine

`Unity` `Blender` `Rigid body Sim` `C#` `Audacity`

Imagination - Deep learning and Computer Vision   Link
- Developed a Text to Image and Image caption generator

`CNN` `LSTM` `Word2Vec` `OpenCV` `Deep learning`

TECHNICAL SKILLS

`Unity` `C++` `C#` `Android Studio` `Java` `Kotlin` `Python` `AIML` `HTML` `JS` `DevOps` `Git` `Azure` `AWS - cloud` `MySQL` `MongoDB` `Adobe XD` `NodeJS` `Blender`

CERTIFICATIONS

✹ **AWS Certified Cloud Practitioner**   Link
✹ **Microsoft Azure AI fundamental (AI 900)**   Link
✹ **Microsoft Azure fundamental (AZ 900)**   Link

PUBLICATIONS

👥 **Conference Proceedings**
- Girhe, N. et al. (2023). In: Advances in Communication, Devices and Networking. Singapore: Springer Nature Singapore,pp. 111-127. ISBN: 978-981-19-2004-2.
  doi.org/10.1007/978-981-19-2004-2_10
- Girhe, N. et al. (2022). "Smart traffic system to optimize the city traffic". In: YMER Digital.
  DOI: 10.37896/YMER21.12/83
  ymerdigital.com/archives/?cpage=5issId=%202112