

# Rudrakumar Balakumar

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## PROFILE

Good team player | Adaptive to new trends or changes | Skilled public speaker | Event hosting experience | Focused on learning | Applies learned knowledge in various domains | Versatile | Good communicator

## EDUCATION

**B.E Computer Science and Engineering**  
Chennai Institute of Technology

Chennai, India

**Higher Secondary Education**  
Lalaji Memorial Omega International School

Chennai, India

## SKILLS

**Development Languages** (Python, Java, JavaFX, HTML/CSS, C/C++, JavaScript, GO lang, TypeScript)

**Software Tools** (Blender 3D, Unreal Engine 5, Davinci Resolve 17, Google Suite, Microsoft Office, Metamask, GIMP, Krita)

**Frameworks** (MySQL, Django, ReactJS, NodeJS, ExpressJS, NextJS, Supabase, StreamLit, Firebase)

**Soft Skills** (Ability to Work in a Team, Basic Accounting, Communication Skills, Contract Negotiation, Decision Making, Fast Learner, Situational Awareness, Lateral Thinking)

## INTERNSHIPS

**Fullstack Developer**  
RPZ Enterprises

05/2023 – 07/2023 | Chennai, India

- Founded a small organization, delivering dynamic websites to local businesses as a summer project/internship.
- Focused on framework integration, API utilization from diverse tools, and project management during the internship.
- Provided comprehensive web solutions while honing skills in API integration and project coordination.
- Managed business operations and cultivated client relationships, ensuring satisfaction and retention of local businesses.

**Fullstack & AR/VR developer**  
Veerel Enterprises

06/2023 – 08/2023 | Chennai, India

- Developed a dynamic webpage with real-time functionality and payment transaction capabilities during a summer internship.
- Created a dedicated virtual environment with 45% scale enabling exploration of multiple real-world emulated locations and architectural structures.
- Designed real world monuments with 30 - 45% scale in virtual reality while providing realistic layered floorplans with 90% accuracy.
- Combined web development skills with virtual environment creation for a comprehensive project experience.

**Junior 3D Engineer**  
Lux and Decibels


02/2023 – 03/2023

- Tasked with creating and manipulating 3D objects of 1:1 scale.
- Created virtual environments with 85% scale and implemented blueprints as well as utilizing custom 3D models.
- Simulated an animated objects for presentation of VR Environment and reduce memory storage space by 45%.

## CERTIFICATES

- |   |   |  |
|---|---|--|
| • IBM - Introduction to Cloud                     | • IBM - Django Application Development with SQL and Databases | • IBM - Introduction to Web Development with HTML, CSS, JavaScript |
| • IBM - Python for Data Science, AI & Development | • IBM - Developing Front-End Apps with React                  | • IBM - Developing Back-End Apps with Node.js and Express          |
| • CCNAv7: Introduction to Networks                | • CCNAv7: Switching, Routing, and Wireless Essentials         | • UiPath Citizen Developer certificate                             |

## PROJECTS

**DnD - Social Networking Web App**   
[https://github.com/dirrudra/DnD\\_Deploy](https://github.com/dirrudra/DnD_Deploy)

- Organized a team to create and deploy a Social Networking app.
- Created a roadmap and distributed responsibilities.
- Implemented a custom SDXL Model with 76% more relevancy.
- Integrated a Gen - AI Text bot to support narratives in sessions.

**Virtual Reality-Based Training for Air Marshalling Operations**

SIH 1411

- Created a dedicated training simulator in a Virtual Environment.
- Created a VR Environment of 85% scale for training session.
- Optimized application storage by 72%
- Created, simulated and integrated external 3D objects.

**Unisys - Drugs awareness platform + ChatBOT**

- Created a digital platformer in Unreal Engine 5.
- Provided input mapping with 80% reduced memory allocation.
- Simulated real world physics with 60% fidelity

**Movie Review Analysis**

<https://github.com/dirrudra/Streamlit.git>

A streamlit project that marks the introduction to data science and data analytics projects.

**Misinformation Detector**

<https://github.com/dirrudra/ImageGalleryDJ.git>

- A high technology dependent concept that uses Gen AI, Peer to Peer network, Hardware and Software Cloud System.
- Uses a spider network to transmit data to servers.
- Gen AI is used to read, recognize contextual language to detect misinformation.

## ACHIEVEMENTS

**SIH Finalist and 1st Place Winner**

**Participated and Competed in the National Level Hackathon SIH and won 1st place in the problem statment SIH1411**

**LeetCode**

Successfully completed 553 LeetCode problems and achieved the rank of 71,759th globally

**Hosted HACKERZ: AR/VR Workshop**

Conducted an hosted a workshop that explore the realms of AR/VR technology. This workshop covered Blender3D, Unreal Engine 5, VR environment/ productions and VR Hardware.

**Vice Chairperson of UN Women committee in MVM 22"**

Successfully coordinated and co-hosted a committee about Women in social media for Model UN Women.