**iHub Drishti Foundation**
**Indian Institute of Technology Jodhpur**
**Internship**
**TIH/iHub Drishti/2022-23/Intern Engagement/03; Dated 29 March 2023**
N.H. 62, Nagaur Road, Karwar, Jodhpur 342030, Rajasthan (India)
*Website: https://ihub-drishti.ai/e*Mail: hr@ihub-drishti.ai

# Openings For: Tech Interns

iHub Drishti Foundation (iHub Drishti) is a Section-8, Not-for-profit Company, promoted by and at the Indian Institute of Technology Jodhpur under a National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS) of the Government of India. iHub Drishti is a Technology Innovation Hub focused around "Computer Vision, Augmented Reality and Virtual Reality".

iHub Drishti Foundation invite applications from B.Tech and M.Tech students for engagement as intern for the following Job Roles, find the JD with respect to JRs:

**Duration: 03, 06, 12 Months internship.**
**Stipend: INR 10,000 (For B.Tech Students), INR 12,400 (For M.Tech. Students)**
**Last Date to Apply: 15 April 2023**

**Openings:**

| S. No. | Role |
|--------|------|
| 1. | AI / ML / CV Intern |
| 2. | Software Development Intern |
| 3. | AR/ VR Intern |

**Description**

**(S.No. 1) Role:** AI / ML / CV Intern
**Description:**
- Proven experience as a Machine Learning Engineer or similar role using Python
- Deep knowledge in mathematical, probability, statistics and scientific computing using Python.
- Knowledge of various AI/ML Techniques related to NLP, Audio Processing & Computer vision.
- Understanding of data structures, data modelling and software architecture
- Familiarity with machine learning frameworks (like Keras, PyTorch, OpenCV, TensorFlow) and libraries (like scikit-learn)
- Good debugging skills and analytical skills to understand, evaluate and provide solution for given complex scenarios.
- Design, code, experiment and implement machine learning/ Deep learning models and algorithms for several applications.
- Experience with one or more container-ecosystem (docker, Kubernetes)
- Experience designing APIs (REST, GraphQL) and developing data pipelines using state-of-the-art tooling (ex. Airflow, dbt, Snowflake).

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- Strong understanding of cloud infrastructure with Amazon Web Services (AWS), including serverless architecture (Lambda) and infrastructure-as-code (ex. CloudFormation, Terraform, CDK)
- Knowledge of SQL and NoSQL databases, including relevant AWS tooling (Redshift, Aurora, DynamoDB, Glacier)
- Knowledge of Hadoop/ MapReduce, Spark, Kafka
- Knowledge of ETL, Data-Lake
- Experience working in production software development with Python
- Experience creating cross-team agreement on engineering solutions and architecture decisions
- Excellent communication skills
- Outstanding analytical and problem-solving skills

**(S.No. 2) Role:** Software Development Intern
**Description:**

- Knowledge of RDBMS, API writing, integration, and Testing.
- Design and implement user interface components for JavaScript-based mobile/web applications using React or angular ecosystem
- Work as a part of a small team that includes other react native Interns, designers, QA experts, and managers
- Use Native APIs for tight integrations with all platforms – Android, iOS, Web
- Knowledge in the libraries which are in use.
- Knowledge in the toolsets which are in use.
- Unit and integration testing on micro level.
- Work with third-party dependencies and APIs
- Build apps and UI components from prototypes and wireframes
- Analytical thinking and experience (practical when design the architecture of the "tasks" prior to coding it).
- Technological understanding (ability to see the new "thing/Tasks" in a wider perspective, for example how a small library fit into a large project or product).
- Planning before coding.
- Coding (testable code, clean reusable code, maintainable code, readable code, bug-free code, beautiful code).
- Correctness (few bugs, few iterations with refactoring).
- Learning and Adaptability (the ability to learn about and use new technologies, protocols, libraries, or even languages as needed).

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**(S.No. 3) Role:** AR/VR Intern
**Description:**

- Experience in C# / Java/ Python / javaScript (Any of them)
- Knowledge on Blender, Unity, Unreal Engine and Simulation
- Possess strong understand of Unity Programming and algorithm development
- Knowledge on application development for AR/VR headsets such as HTC Vive, oculus Rift, HoloLens etc.
- Experience with common UI design tools, AR Object recognition, acquisition, tracking and rendering.
- AR integrating with existing AR platforms like Vuforia, Wikitude, Metaio.
- Write code that is cross-platform and cross-device compatible
- Ability to wear many hats and learn new technologies quickly.
- Design, develop, and deploy modular cloud-based systems
- Develop and maintain cloud solutions in accordance with best practices
- Ensure efficient functioning of data storage and process functions in accordance with
- company security policies and best practices in cloud security
- Identify, analyze, and resolve infrastructure vulnerabilities and application deployment issues
- Regularly review existing systems and make recommendations for improvements
- Interact with clients, provide cloud support, and make recommendations based on client needs
- ROS (robot operating system) in Python.
- Have worked on robotics hardware preferably robotic Arms

**Applications will be accepted via (https://tinyurl.com/ihubdrishtiintern).** Interested candidates may apply by sending their CV covering educational and professional qualifications in the relevant field along with work experience, last salary drawn, contact details, and references with necessary documentary evidence by filling above mentioned form **on or before the last date of April 15, 2023.**

**Additional information:**

(1)   Applicants are advised to ensure, before applying, that they possess at least the minimum essential qualification and experience laid down for the engagement.

(2)   Eligibility of a candidate and satisfaction of any other short-listing criteria shall be considered as on the last date of the submission of the online application.

*(3)   Decision of the board will be final for the engagement.*

(4)   iHub Drishti Foundation reserves the right to fill up the, or not to fill up the engagement or cancel the advertisement in whole or partly without assigning any reason.

(5)   No hard copy application is to be submitted. No email application is to be submitted.

(6)   No correspondence will be entertained from the candidates in connection with the process of engagement.

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(7) Canvassing in any form will be a disqualification. Application, which is incomplete, not in prescribed format, will be summarily rejected.

(8) Application with insufficient information or without relevant supporting documents will not be considered for further processing. Applications without self-attested supporting documents will be summarily rejected.

(9) The engaged person shall have no claim of appointment / absorption in any companies, departments, or centers of IIT Jodhpur.

(10) The engagement of the applicant will be governed by the terms & conditions of the iHub Drishti Foundation, IIT Jodhpur in effect on time-to-time basis

(11) Specific queries, if any, may be directed to the email: hr@ihub-drishti.ai.

(12) iHub Drishti foundation may verify the antecedents or documents submitted by a person at the time of appointment or during the tenure of the service. In case, it is detected that the documents submitted by the candidates are fake or the candidate has a clandestine antecedents or background and has suppressed the said information, then his or her services shall be terminated.

(13) Any dispute with regards to the selection/recruitment will be subject to Courts / Tribunals having jurisdiction at Jodhpur.