

## PROFILE

I am eager to contribute to medical imaging research institutes, imaging institute or AI-driven healthcare projects, with a strong interest in AI to drive innovation.

## EXPERIENCE

### Research Intern at *National Institute of Health and Medical Research (INSERM u1231) (Dijon, France)* 2024.02–2024.06

◇ Developed DL models for automated 3D segmentation of mouse brain regions. ◇ Prepared large (25 30GB) and low-contrast images dataset. ◇ Collaborated with INSERM's NeuroGeMM laboratory and ICMUB on neuroanatomical studies. ◇ Utilized Python and DL frameworks (PyTorch) for model development, preprocessing, and data analysis.

### Full Stack developer at *Vision Eye Hospital (Dhaka)* 2020–2022

◇ Requirement analysis, design and development. ◇ Designed a scalable database schema and system architecture. ◇ Assigned tasks to team members and efficient collaboration. ◇ Developed and integrated new modules with the existing system for functionality. ◇ Set up the web environment and provided training to users.

### Web Application Developer (Remote Job) at *System Bind Consulting and IT Services Inc. (Canada)* 2019–2020

◇ Design and development database schema and web application ◇ Integrated CI/CD workflows with Git-based repositories ◇ Deployed scalable applications on AWS Elastic Beanstalk and EC2 instances ◇ Implemented IAM roles and security groups ◇ Configured and integrated AWS RDS

### Web Application Developer (Remote Job) at *Make Good Media* 2016–2017

◇ Design, develop and maintain innovative features using PHP in Laravel framework ◇ Ensure product quality and performance

## FORMATION

### ERASMUS MUNDUS JOINT MASTER DEGREE IN MEDICAL IMAGING AND APPLICATIONS (MAIA). Sep 2022 - Aug 2024

◇ Medical imaging and applications through interdisciplinary coursework, including **image processing, segmentation, and registration**, as well as **machine and deep learning techniques**. ◇ Gained hands-on experience in **statistical learning, data mining, and robotics**, and applied these skills to **computer-aided diagnosis, surgery, and eHealth systems**. ◇ Enhanced technical proficiency in **software engineering, digital signal processing, and distributed programming** while understanding the integration of **sensors, digitization, and networking** in healthcare technology.

### MSC IN SOFTWARE ENGINEERING (SE) 2018 – 2020

◇ Tianjin University, School of Computer Software, China

### BSC IN COMPUTER SCIENCE AND ENGINEERING (CSE). 2010 - 2014

◇ Bangladesh University

## PROJECTS (ACADEMIC)

◇ Elastix-Based CT Image Registration for COPD Lung 3D volume analysis  
◇ Deep Learning Approaches for 3D Segmentation of Human Brain Tissue  
◇ Automated Skin Lesion Classification: A Comprehensive Analysis of Transfer Learning and Machine Learning Techniques  
◇ Expectation-Maximization Algorithm in Brain Tissue Segmentation  
◇ Automatic retinal image hard exudated segmentation using a traditional method.  
◇ Deep Learning-Based Skin Lesion Classification: A Computer-Aided Diagnostic

## PROJECTS (INDUSTRIAL)

### Hospital Information Management Systems (HIMS)

◇ Fully automated patient, doctor, prescription, appointment, surgery, post-surgical follow-up, diagnosis, and accounting management solution.

### Application of Medical Image 3D Visualization Web Platform

◇ Python base 3D visualization of medical image data

# Taiabur RAHMAN

Medical Imaging and Application student



## Contact details

☎ +33 07 66 93 69 20

@ taiaburbd@gmail.com

✉ Paris (75019)

## Personal information

Nationality: **Bangladeshi**

Languages: **English (B2), France (A1)**

## Skills

### Python

- Django, Flask
- PyTorch, TensorFlow, Keras

### PHP

- Laravel, Codelgniter

### Java script

- Vue CLI, React js, Next.js
- TypeScript, jQuery

### APIs and Version Control

- RESTful API
- Git, JSON

### DevOps and Cloud Services

- GCP, DigitalOcean
- AWS: EC2, RDS, Load Balancing, S3, Route53

### Web Servers

- Apache, Nginx

### Database

- MySQL, SQLite

## Usefull link

🌐 <https://taiaburbd.github.io>

🌐 <https://github.com/taiaburbd>

🌐 [www.linkedin.com/in/taiabur-rahman/](https://www.linkedin.com/in/taiabur-rahman/)

## Keywords

Medical Imaging, Deep Learning Engineer, Computer-Aided Diagnosis, Ai in health

## Interests & Hobbies

**Travel** (Cultural, educational)

**Community Engagement** (Tech mentoring, health-related initiatives)