

# Iftekher Toufique Imam

Dhaka, Bangladesh

Email : 2013nuhash@gmail.com

Mobile : (+880)1521108127

Linkedin — Github — Google Scholar

## EDUCATION

---

- Khulna University of Engineering & Technology**

*B.Sc. in Computer Science and Engineering, CGPA: 3.21*

Khulna, Bangladesh

2017 – 2022

## PUBLICATIONS

---

- DOC-BLOCK: A Blockchain Based Authentication System for Digital Documents. ICICV 2021, pages 1262–1267. **Citation: 58**
- A Novel Multi-Module Approach to Predict Crime Based on Multivariate Spatio-Temporal Data Using Attention and Sequential Fusion Model. IEEE Access, 10:48009–48030, 2022. **Citation: 35**

## EXPERIENCE

---

- Kite Games Studio**

*Software Engineer, iOS*

Dhaka, Bangladesh

April 2022 - Present

- Worked closely with product teams and designers in an Agile environment to analyze and implement requirements for 5+ iOS apps, each achieving over 10M downloads on the App Store.
- Developed innovative AI-powered solutions for a range of current and future projects, including face restoration, super resolution, makeup, face editing, image ranking, database scripting and automation, problem fixing, and performance optimization.
- Improved CPU-heavy functions by adding structured concurrency and parallel pipelines, and accelerated core image operations using custom Metal shaders.

- Kero.fi pte Ltd.**

*Blockchain and Backend Developer*

Singapore

Sept 2023 - Present

- Guiding a group of five individuals on the Pinky project, whose objective is to facilitate the utilization of the NFT marketplace and transform resources from Generative AI into NFT.

## COMPETITIVE PROGRAMMING EXPERIENCES

---

- Placed **1st** in Intra KUET Programming Contest 2019
- Participated in **over 20** National Programming Contests (i.e: BUP IUPC 2018(19th), KUET IUPC(16th)).
- Participated in **2 ACM ICPC Regional** Contests.
- Placed **299th** in **Codegoda 2022**
- Solved over **2000** algorithmic problems on different platforms.(i.e. **Codeforces, Codechef, Spoj, Lightoj**)
- Problem Setter in SCB-PA Inter School and College Programming Contest 2019.
- Problem Setter in Intra KUET Programming Contest 2019, 2020, 2022.
- SGIPC's Vice president. The group is for KUET's competitive programmers. Organizing competitions and classes for practice.

## PROJECTS

---

### • **Beauty Editor Plus Face Makeup**

iOS

Swift, Objective-C, Metal SL, MLModel

- **Makeup:** Photo realistic **hair recoloring, lipstick, eyelashes, eyeliner, lenses, teeth whitening, etc**
- **Face tweaking:** Face, jaw, lip, nose, eye resize, reshape
- **Blur:** Several blur techniques such as bokeh, hexagonal, disc, zoom, box, motion, Gaussian blur along with Background, foreground, linear, circular selection
- Various machine learning models & image processing techniques were used to achieve these
- Undo-redo manager with layer selection, swapping

### • **Wipe: Photo cleaner**

iOS

Swift, MLModel

- **Optimized** app's performance for image similarity scanning.
- Developed algorithm for finding best image among a set of similar images

### • **Color Pop Effects Photo Editor**

iOS

Pytorch, Swift, Metal SL, MLModel

- **Photo Colorizing** model for the app that colorizes any photo.
- Quick Tools features incorporate recolor, color-pop, colorize, double exposure, etc.
- R&D for ML-based **Super resolution, Face enhancement, Photo colorizer** of Image

### • **Pinky:**

ChatGPT, Stable Diffusion, NFT

NextJS, Typescript, Blockchain, Solidity, Mongodb

- **Smart Contracts:** Developed PinkyNFT, Token and Marketplace contracts. Solidity and Remix were utilized for contracts deployed in Polygon, ASTAR. FunC language was used for TON network
- **Website:** Developed the backend, necessary frontend functionalities, and views to connect with the backend and smart contracts. The frontend and backend were developed using Next.JS, Typescript, MongoDB, Auth0 and Vercel.
- **Telegram Bot and Mini App:** Pinky-ton-auction is aiming to giveaway NFTs through an auction/investment mechanism. Backend developed using react, nextjs on top of the Ton Network, and mongodb

### • **JMXPlayer and JMXPlayer Cast:**

Android

Kotlin, JS, HTML

- Video/audio stream/playback with media casting, playlist, history, and M3U playlist
- Webview with media parsing
- Adblocker and cross-app media sharing

### • **Like! :**

Android

Kotlin, NodeJS

- Movie/TV series streaming app using TMDB API, web scraping
- Optimized Firebase usage with Github and offline caching techniques
- Enhanced APK security with various checks with signature-dependent content encryption
- Automated CMS with NodeJS