



## TOUHIDUL ISLAM CHAYAN

### Software Engineer

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[CHNsPart.com](https://CHNsPart.com)

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## RECENT TECH STACK

- JavaScript (ES6, ES7, TypeScript) for both Functional and OOP.
- React.JS, Next.JS (12 & 13), Node.JS (Nest.JS, Express)
- S.O.L.I.D Scalable Architecture for production build, Custom Hooks and custom design system.
- Git hooks and linters for better team communications and practices.
- Python for ML (Deep Learning in Computer Vision with black-box models, Transfer Learning with Fine Turing), XAI Frameworks (LIME, SHAP, GradCam).
- Adobe XD and Creative Suite, Figma, Framer for Designing.
- Spline and Blender for 3D elements.
- Work Samples available at → [Touhidul Islam Chayan](https://github.com/TouhidulIslamChayan) ([github.com](https://github.com))

## SKILLS

Python	TypeScript	Javascript
Next.JS	React.JS	JAVA
S.O.L.I.D	Material UI	Tailwind
Redux	RxJs	Custom Hooks
NEST.JS	AI/ML Models	CommitLint
MongoDB	Postgres	Node.JS
REST API	Framer motion	React Native
MySQL	Adobe XD	Figma
	Chart.JS	Spline

## WORK HISTORY

2022 JUN - Present Software Engineer City Group	2021 JUL - 2022 MAY Software Engineer Ban Base	2021 JAN - 2021 JUL UI-UX & Software Engineer The Boring Platform (DD-AD)
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## WORK EXPREIENCES

### City Group (AD-IQ) Software Engineer

2022 JUN - PRESENT

- Developed an Android app with **React Native** with a custom playlist API built on Mongo DB and a server with Node.JS. The API sends different states for the online and offline versions.
- Built a quick solution in a project of FMCG Retail Store Screen AD, Rooted android TV, and auto launched the app for ready product solution with 3rd party monitoring system.
- Built an API with **Python (Flask)** to collect ML model data.
- Working on the front-end in production with **TypeScript (Next.JS 12 & 13 --experimental)** with → pixel perfect custom Server side and Client side TSX components, API Integration, Custom Loader, multi step form with business logics, framer motion animation and etc.
- Working on the backend with **Node.JS (Nest.JS)** → User Auth with validation pipes and JWT, CRUD API, Custom repository with business logics, Postgres with TypeORM with DTOs, Custom Query Logics
- Live project : [client.ad-iq.com](https://client.ad-iq.com)
  - username - test@gmail.com, password - 12345678

## Ban Base

2021 JUL - 2022 MAY

### Software Engineer

- Built Client-based UI and Frontend Development with React.JS, Material UI and axios.
- Built Backend with Express.JS for REST API with CRUD operation.
- Created the whole UI with UX interactive prototype with Adobe XD.
- 3D elements for custom react components with Blender and Spline.
- UI demo -
  - [Ban-Base Static Site](#)
  - [Elegant & Homes](#)

## The Boring Platform

2021 JAN - 2021 JUL

### Software Engineer

- Built in-house cash-cow software Frontend Development with React.JS, Material UI and fetch with a team of two member (I and my Lead developer)
- Created the whole UI with UX with Adobe XD
- UI demo -
  - [AD-IQ Project](#)
  - [Mind Share - Bill-Board Project](#)

## EDUCATIONAL BACKGROUND

### BRAC University, Dhaka

2022

BSc in School of Data Science

Key Subject: Computer Science & Engineering

Activities: Thesis paper: "[Decipherable-Classification-of-Glaucoma-using-Deep-Neural-Network-Leveraging-XAI](#)" For BRAC University.

## CERTIFICATION & VOLUNTEER WORK

### Certificate of Appreciation

BRAC University Computer Club

[2020](#)

For my contribution as an Assistant Direct of Creative Department.

### Event Organizer in

**BRACATHON 2.0**

BRAC

2019

### Google Mobile Certificate

Google

2017-2018

An online exam from GDG Dhaka, Google.

## RESEARCH

### Thesis Paper

Glaucoma Detection with Deep Learning in Computer Vision with black box models, Transfer Learning with Fine Tuning and XAI Frameworks (LIME, SHAP, GradCam).

**(IEEE CSDE/i-COSTE 2022 Conference and Indexed on IEEE Xplore digital library)**

### ML Web App

Made a web app with Django, by exporting the [ResNet50 \(94.7%\)](#) .h5 model file to visualize the data and to use the app globally.

[GitHub - CHNsPart/Glaucoma-Detection-using-VGG-19: Glaucoma Detection using VGG-19 pre-trained CNN model using Transfer Learning](#)