

Sunipun Talukder

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Work Experience

BrainCraft Ltd, Dhaka, Bangladesh

AI Engineer

Dec 2022 - Present

- Engineered **generative models** for image creation in **Cartoon.ai**, propelling it to top-grossing status.
- Collaborated intensively in developing and deploying a **semantic image segmentation** model, elevating user experience and delivering precise segmentation functionality to a user base exceeding **10 million**.
- Implemented a comprehensive system for **text-to-image** and **text-to-gif** generation using **stable diffusion** models and **Python**, showcasing proficiency in advanced machine learning techniques and **image processing** algorithms.

Software Engineer

Jan 2022 - Nov 2022

- Planned and implemented an Image to Video making module using **OpenGL ES** and **MediaCodec** API for the **GIFMaker** and **Add Music to Video** android apps, resulting in over **250,000** downloads on the Google Play Store.
- Developed a core video decoder/encoder module using raw **C++ libraries** and the Android **NDK**, resulting in a remarkable **10x** performance enhancement on lower-end devices.
- Managed and guided a team of four members in the successful development of a feature-rich Slideshow app, leveraging Android Core functionalities, **MVVM** architecture, custom rendering techniques, and advanced video **encoding/decoding** technologies.

LiiLab, Sylhet, Bangladesh

Software Engineer

Jan 2021 - Dec 2021

- Architected and Programmed the **Intro Maker** app, leveraging **Canvas** and Native Android APIs to create stunning intros. Achieved an impressive milestone of over **100k** downloads on the Play Store.
- Optimized **GkQuiz's** rank list functionality using **Firestore** Realtime Database and Firestore, achieving a remarkable **4x** performance boost. Attracted over **250k** users on the Play Store.

Technical Skills

- Machine Learning and Image processing : **Pytorch**, CNN, RNN, transformer, NumPy, Scikit-learn, OpenCV, Matplotlib, Pillow.
- Proficient knowledge in **Algorithms**, **Data Structures**, **Dynamic Programming**, **Number Theory**, **Probabilities**.
- Utilized **RenderScript** and **OpenGL ES** for **graphics rendering**.
- Solved over **2000+** Data Structure & Algorithmic problems.
- Experienced in **Agile Environment**, **MVVM** and **MVC** Architecture, **Github**, and Bitbucket.
- Programming Languages: **Python**, C++, Java, Kotlin, Swift.
- Databases: MySQL, SQLite.

Education

Shahjalal University of Science And Technology, Sylhet, Bangladesh

Bachelor of Science in Mathematics

April 2016 - June 2020

Achievement & Awards

Onsite Programming Contest

- ACM-ICPC Dhaka regional preliminary contest, 2017, 2018, 2019 (Best : 126th)

Individual Programming Contests

Nov 2015 - Aug 2020

- Leetcode - ID : **sunipun**
- Codeforces - ID : **stsaiikat** (**Expert**, Maximum rating **1767**)
- CodeChef - ID : **thestsaiikat** (**4 star**, Maximum rating **1844**)
- Codejam 2019 - Round 1B (4819th)

Voluntary Activities

- Moderator & Trainer**, Euclid Programming Club, SUST
Conducted over 30 programming workshops, training 200+ students in competitive programming Jan 2017 - Dec 2020
- Admin & Program coordinator**, Shuddho Social Organization, Sylhet, Bangladesh July 2015 - July 2019