KAZI MIFTAHUL HOQUE

Email: kazimifta13@gmail.com Portfolio: kazi-mifta.github.io/Portfolio/

RESEARCH EXPERIENCE

Patent

Miftahul, Kazi. 2023. ***Arch height difference measurement***, U.S. Provisional patent application, filed April 3, 2023

Undergraduate Research(Jan 2017 - Oct 2019)

Chittagong University of Engineering and Technology (CUET)

Thesis Title: ***"OptiFit: Computer-Vision-Based Smartphone Application to Measure the Foot from Images and 3D Scans"***

Research Supervisor: Dr. Ashad Kabir

PROFESSIONAL EXPERIENCE

Structure, USA — *3D Software Engineer(Remote)*

October 2022 - PRESENT

- Examined a very large foot scan dataset(1 M) and developed new algorithms to measure human foot dimensions.
- Developed techniques to measure quality of human foot scans by analyzing the foot mesh.
- Developed an iOS application that demonstrated 3D reconstruction using Apple's TrueDepth sensor. It was demoed at the American Orthotics and Prosthetics Association meeting in Sep. 2022 (San Antonio, TX).

Ease Your Motion, Australia — *Researcher & iOS Developer(Remote)*

June 2021 - August 2022

- Collaborated with pedorthists and bionic engineers to develop new systems to provide a better 3D scanning experience for foot care experts.
- Worked with orthotic fabricators and developed features to streamline the fabrication process.

Academic Credentials

Chittagong University of Engineering & Technology, Chittagong — *Bachelor of Science in Computer Science and Engineering*

May 2016 - August 2022, CGPA - 2.74

Senior Thesis: Biometric image watermarking technique using Fractional Fourier Transform and Interpolative Decomposition.

Standardized Test Scores

International English Language Testing System(IELTS) - **10th June, 2023**

Overall	Listening	Reading	Writing	Speaking
7.5	8.0	7.0	7.0	8.5