

# KAZI MIFTAHUL HOQUE

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## RESEARCH EXPERIENCE

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### 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

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### Structure, USA – 3D Software Engineer

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

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

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### 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

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International English Language Testing System(IELTS) - 10<sup>th</sup> June, 2023

Overall	Listening	Reading	Writing	Speaking
7.5	8.0	7.0	7.0	8.5

