Masuda Rahman Fatima

Software Engineer, 3D modelling
Undergraduate Double major in CSE and Mathematics
Brac University

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🌐 Website Portfolio

EDUCATION

- **Bachelor of Science in Computer Science and Engineering and Double Major in Mathematics** *2020-24*

  Brac University, Dhaka, Bangladesh   CGPA: 3.92/4

- **High school (O and A Levels under Edexcel Board)** *2017-19*

  Subjects in A Levels: General Mathematics, Further Pure Mathematics, Physics, Chemistry, Biology, Psychology   CGPA: 5/5

TECHNICAL SKILLS AND INTERESTS

Programming languages/Web technologies: Python, C, Javascript, Rust, Dart, Typst, HTML+CSS
Tools: VScode, Blender, Unity, Github, Docker
Frameworks: Tauri, Flutter, Laravel
Cloud/Databases: Firebase, Relational Database(mySql)
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Software Engineering, Data Science, Artificial Intelligence, Cryptography and Cryptanalysis, Blockchain and Cryptocurrencies.
Areas of Interest: Web Design and Development, Android App Development, 3D modelling, Game development

PERSONAL PROJECTS

- **Android app for tracking expiry dates**
  - Features user authentication, food item registration, and blog posting.
  - Built with Flutter and Firebase to register new users and store their items and public blogs.

- **Website projects**
  - Note sharing website: user authentication, note posting, commenting. Technologies: Laravel, docker, SQLite.
  - Realtime Chat app: gmail authentication, public forum. Technologies: ReactJs, Firebase, Bootstrap. 🔗 Demo
  - Website Portfolio: with links to other projects and personal blogs. Technologies: Hugo, Netlify. 🔗 Demo
  - Ticket booking website: with user and admin views. Technologies: PHP, bootstrap, MySQL

- **Discord bot** - Developed in Python for student mark distribution in a course server and graphing.

- **Weekly Art Challenge** - Uploading a new 3D scene made in blender weekly. Art portfolio: **Bē** Behance

- **Machine Learning Projects**
  - CAPTCHA solver using CNN models.
  - Various ML projects on Datacamp that used AdaBoost, Naive Bayes, Regression Trees and more.
  - Kaggle Competitions: Participated in multiple competitions, including the Robi Datathon.

EXPERIENCE

- **ROBU, IT department — Senior Executive** *Sep 2020 - Dec 2023*
  - Worked with an team to create 3D animated videos, posters and edit educational videos for ROBU edX.
  - Instructor for "Introduction to 3D Modeling and Animation" workshop.

- **Student Tutor at Brac University** *Jan 2022 - Aug 2024*
  - Graded assignments, aided during lab classes and provided student consultations
  - Tutored in courses: Data Structures, Differential Calculus & Coordinate Geometry, Mathematics for Machine Learning, Complex Variables and Laplace Transformation, Differential Equations I, Linear Algebra and more.

- **Tateru** *Jul 2024 - Present*
  - Head of 3D Modelling & Animation. 🔗 Link

ACHIEVEMENTS

- **Daily Star, Daily Sun and Edexcel Awards:** Highest Achievers for 9 A/A* in O level and 5 A/A* in A levels. *2018-19*

- **Math Olympiad:** Won middle and high school math Olympiads 4 times. *2013-16*