

# Ferdous Zeaul Islam

Sr. Software Engineer

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## SUMMARY

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- Software Engineer with 3+ years of experience developing and managing software solutions for a startup software firm under DBL Group, serving clients across Bangladesh, India and the USA. Experienced in mentoring and supervising junior developers and interns.
- Graduated with Summa Cum Laude honors, published two conference papers as the first author, served as an undergraduate teaching assistant under 4 different faculty members and a rated member at NSU Problem Solvers Club with 700+ solved across Codeforces, UVA, LightOJ and LeetCode.

## TECHNICAL EXPERTISE

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- **Languages:** Java, Python, C++
- **Framework & Tools:** Spring Boot, Android Studio, Flask, Sklearn, PyTorch, PostgreSQL, MySQL, Firebase

## EDUCATION

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- **Bachelor of Science in Computer Science and Engineering** Jan 2022  
North South University Dhaka, Bangladesh  
Summa Cum Laude  
CGPA: 3.94

## PROFESSIONAL EXPERIENCE

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- **Sr. Software Engineer** Jan 2025 - Present  
Neural Semiconductor Limited Dhaka, Bangladesh
  - Lead the current team working on development of company's in-house flagship software- Tafuri HRMS.
  - Conduct requirements gathering meetings with clients.
  - Mentor interns and trainees joining in the backend team.
- **Software Engineer III** Jan 2024 - Dec 2024  
Neural Semiconductor Limited Dhaka, Bangladesh
  - Led the entire project development with a team of 10-12 members, design database architecture and develop backend features for marketing expense tracking software for DBL Group, 5th largest RMG manufacturer in Bangladesh.
  - Manage, distribute and collaborate with the development, sales and marketing team for feature development of company's in-house flagship software- Tafuri HRMS.
  - Mentor interns and trainees joining in the backend team.
- **Software Engineer II** Jan 2023 – Dec 2023  
Neural Semiconductor Limited Dhaka, Bangladesh
  - Database design, backend development and writing tests for features of company's in-house flagship software- Tafuri HRMS.
  - Develop backend features and build Progressive Web App (PWA) version of the website of a sales tracking software for DBL Ceramics, a leading ceramic company in Bangladesh.
- **Software Engineer I** Feb 2022 – Dec 2022  
Neural Semiconductor Limited Dhaka, Bangladesh
  - Develop backend features of company's in-house flagship web based software- Tafuri HRMS.
  - Setup automation testing environment for web apps using Selenium.
- **Undergraduate Teaching Assistant** Jun 2021 – Sept 2021  
North South University, Department of Electrical & Computer Engineering Dhaka, Bangladesh
  - Assist faculty with course work, evaluate assignments and hold student consultation hours.

## NOTABLE PROJECTS

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- **AR Schoolbook, Augmented Reality App**

**Description:** An augmented reality android app for figures and experiments in the NCTB mandated Bengali medium class-7 science book. Built using Android Studio (Kotlin), ARCore Android SDK, Firebase Real-time database, and YouTube API. A user study with around 30 participants was conducted in designing the application which consisted of face-to-face interviews and online survey with students and home tutors. Interviews were analyzed using Atlas.ti web.

**Github Link:** <https://github.com/NSU-SP21-CSE499-18/Group-01>

- **Help Me, Android App and Web Platform**

**Description:** A real-time emergency help seeking platform consisting of an android app and a supplementary web app. Implemented using Android Studio (Java), Firebase (Phone Authentication & Realtime Database), Fused Location API, Google Maps SDK, Barikoi Android Library. The required features and UI/UX design were inspired from face-to-face interviews with 6 participants and online survey. Interviews were analyzed using Atlas.ti web.

**Github Link:** <https://github.com/ferdouszislam/Help-Me-App-v497>

- **Bangla Handwriting Aesthetics Prediction with Deep Learning**

**Description:** Aesthetic score prediction of Bangla handwritten characters collected from the Bangla-Lekha-Isolated dataset using a custom CNN architecture and transfer learning. Implemented using Pytorch and libraries: pandas, numpy, matplotlib etc.

**Github Link:** <https://github.com/ferdouszislam/Bangla-Handwritting-Aesthetics-Prediction-ML>