

Protik Dey

Ph.D Student, Department of Computer Science
University of Texas at San Antonio

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SUMMARY

I am a second year Ph.D. Student in Computer Science at the University of Texas at San Antonio with three years of professional full-stack development experience, specializing in Fintech. My research focuses on designing trustworthy, privacy-aware and accessible Generative AI tools for blind and low vision people.

PUBLICATIONS

Explainable AI for Blind and Low-Vision Users: Navigating Trust, Modality, and Interpretability in the Agentic Era [🔗](#) Apr 2026

Abu Noman Md Sakib, **Protik Dey**, Zijie Zhang, Taslima Akter
Proceedings of the CHI 2026 Workshop on Human-Centered Explainable AI (HCXAI)

Static Detection of Malicious Code in Programs Using Semantic Techniques [🔗](#) Feb 2021

Syed Zami-Ul-Haque Navid, **Protik Dey**, Shamiul Hasan, Muhammad Masroor Ali
11th International Conference on Electrical and Computer Engineering (ICECE), 2020

RESEARCH

Are You Misinformed? A Study of Covid-Related Fake News in Bengali on Facebook [🔗](#)

- A benchmark dataset of Bengali Facebook posts regarding COVID-19 using CROWDTANGLE
- Transformer-based training on the dataset and report on the correspondence between fake news and people's reaction

Brief Work in The Field of 5G and Beyond 5G [🔗](#)

- Simulated 5G and beyond 5G network communication using NS3
- Analyzed throughput of highly dense terahertz communication network

EDUCATION

Ph.D. in Computer Science Aug 2024 – Present
The University of Texas at San Antonio Texas, USA

B.Sc. in Computer Science and Engineering Feb 2016 – Mar 2021
Bangladesh University of Engineering and Technology (BUET) Dhaka, Bangladesh

SKILLS

Programming Languages

C, C++, Java, Python, JavaScript, TypeScript, Bash

Libraries

NumPy, Pandas, Scikit-learn, Matplotlib

Version Control

Git

Development Frameworks and Tools

Spring Boot, Django, Angular, Strapi, JavaFX, Redis, RabbitMQ, Hibernate

Databases

Oracle, MySQL, MariaDB, SQLite

PROFESSIONAL EXPERIENCE

Kona Software Lab Limited

Software Engineer

- Worked in the **Integrated Platform** team that aims to provide global payment solutions.
- Key responsibilities include designing and implementing the validation and authorization of various financial transactions like recharge, payment, etc.

Jan 2023 – Jul 2024
Dhaka, Bangladesh

- **Tech Stack:** Spring Boot, Redis, RabbitMQ, MariaDB

Graduate Engineer

Aug 2021 – Dec 2022
Dhaka, Bangladesh

- Worked as a Full-Stack Developer in the **Digital Financial System** team, which provides financial transactions and related solutions to Nagad ☺ , Bangladesh's fastest-growing mobile financial system.
- Key responsibilities include designing and implementing tokenized payment, KYC, transferring money to a bank/card, etc.
- Also worked in the back-office portal team of the new KONAPLATE ☺ project using the Angular framework and implemented the basic structure of the portal.
- **Tech Stack:** Spring Boot, Angular, Redis, RabbitMQ, Strapi, Oracle Database