

NAZIA TABASSUM TOMA

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EDUCATION

Masters of Engineering, Computer Science (4.0/4.0)

Exp. December 2024

University of Cincinnati, College of Engineering and Applied Science, Cincinnati, Ohio

Coursework: Advanced Algorithms, Cloud Computing, Advanced Software Engineering, Software Architecture, Distributed OS

Bachelor of Science, Computer Science & Engineering (3.7/4.0)

December 2021

North South University, Dhaka, Bangladesh

Coursework: Data Structure and Algorithms, Software Engineering, Machine Learning, Pattern Recognition and Neural Networks

SKILLS

- **Programming:** Python, Java, C++, PHP
- **Web Technologies:** HTML5, CSS, Bootstrap
- **Libraries:** Pandas, NumPy, spaCy, Django, TensorFlow, PyTorch, Tkinter
- **Database:** MySQL, SQLite
- **Cloud Technologies:** AWS (EC2, S3, RDS, Lambda)
- **Tools:** Eclipse, GitHub, MS Office
- **Platforms:** Windows, Linux (Ubuntu)
- **ML Algorithms:** Decision Trees, Support Vector Machines (SVM), K-Nearest Neighbors, Logistic Regression
- **Advanced Skills:** API Design, Unit Testing (TDD), Design Patterns, Codebase Structuring, Software Licensing

EXPERIENCE

Software Developer, Taco Tango Food Truck Ordering App, Oshawa, Canada (Remote)

April 2024 - Present

- Developed and deployed a standalone application for Taco Tango, a local food truck, using Python, Tkinter, and SQLite to enhance order management, customization, and data retrieval, significantly streamlining business operations.
- Implemented data export functionality to Excel, empowering the business owner to efficiently analyze sales, manage inventory, and adapt services based on customer preferences, enhancing customer service.

Teaching Assistant, North South University, Dhaka, Bangladesh

October 2021 - May 2022

- Provided assistance to 16 sections, including grading assignments and quizzes.
- Conducted tutorial sessions for students & prepared learning materials.

Intern (Software Engineer), Barikoi Technologies Ltd, Dhaka, Bangladesh

July 2021 - September 2021

- Worked on the flagship product - "Rupantor", which was built to obtain geocoded locations from user-given addresses.
- Developed NLP systems that can successfully identify the different geographic locations from unstructured addresses.

PROJECTS

Automated Bug Classification and Resolution Prediction System

December 2023

- Developed an NLP-based BugFix module that intelligently categorizes and anticipates the resolution trajectory of bug reports, which optimizes the software maintenance process for enhanced efficiency and resource allocation.

Cross-Content Recommendation between Movie and Book Using Machine Learning

August 2021

- Utilized unsupervised learning techniques, including K-means, Hierarchical clustering, and cosine similarity algorithms, to effectively cluster related content by identifying overarching narrative themes.

DOI: <https://doi.org/10.1109/AICT52784.2021.9620432>

Coupon Searching Platform

June 2021

- Developed a dynamic coupon searching platform, enabling users to search for discounts from various websites, including Pathao, Daraz, and Shohoz using Python and Django.

COMMUNITY ENGAGEMENT

- **Chair – NSU ACM-W Student Chapter**, North South University, Dhaka, Bangladesh 2019 - 2020
- **Convener – BASIS Students' Forum – NSU Chapter**, North South University, Dhaka, Bangladesh 2019 - 2020
- **Vice-Chair – NSU ACM-W Student Chapter**, North South University, Dhaka, Bangladesh 2018 - 2019

AWARDS AND RECOGNITION

Magna Cum Laude for Academic Excellence, Issued by North South University, Dhaka, Bangladesh

2023

Recognition of Service for contributions to ACM as Chair of NSU ACM-W Student Chapter, Issued by ACM HQ, USA

2020

Best Industrial Solution – HackNSU Season 2

2020

- Led the development of an automated procurement system that enhanced communication for technophobic vendors, reducing labor costs and time. Won top honors among 50+ teams.