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.