Asif Zubayer Palak

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Research Interests

Natural Language Processing, Large Language Models, Code Generation
Software Engineering, AI4SE

Education

BRAC University *Jan. 2020 – Dec. 2023*
Bachelor of Science in Computer Science and Engineering *Dhaka, BD*
CGPA: 3.76 / 4.00

Relevant Coursework:
Natural Language Processing, Data Structures & Algorithms, Operating Systems, Linear Algebra & Fourier Analysis

Certifications:
Unsupervised Learning, Recommenders, Reinforcement Learning
Advanced Learning Algorithms
Supervised Machine Learning: Regression and Classification
Generative AI with Large Language Models

Research Experience

- Working on "PROBE: Provenance for Replay OBservation Engine" with Samuel Grayson (PhD @ UIUC)
  - PROBE4RSE: Provenance Replay/Observation Engine for Research Software Engineers
- Worked on validating Java-to-Python code translation using original tests through language interoperability with GraalVM
  (Supervised by Dr. Darko Marinov)
- Worked on Pattern Recognition to enable shoppers to find clothing products by matching their doodle sketches to products online
  (Supervised by Dr. Farig Yousuf Sadeque)

Publications

- **Doodle2Clothing**: A Clothing Design Recognition and Searching Model from a Doodle Drawing
  Published - INTCEC 2024 DOI: 10.1109/INTCEC61833.2024.10602879
- **GlueTest**: Testing Code Translation via Language Interoperability
  Accepted - ICSME 2024 (NIER Track)

Industry Experience

Jr. Software Engineer *Jun. 2024 – Present*
Karooth IT *Dhaka, BD*

- Developed a Helpdesk application with Spring Boot and Angular
- Developed RESTful APIs for the Grievance Redress System

Software Engineer Intern *Jan. 2024 – May 2024*
bKash Limited *Dhaka, BD*

- Designed and developed a lunch booking and management system for subscribers and vendor.
- Developed RESTful APIs for the microservices with roles-permission management.

Technical Skills

Languages: Java, Python, SQL (MySQL), JavaScript, Typescript, HTML/CSS
Frameworks: SpringBoot, Angular, PyTorch
Libraries: pandas, NumPy, Matplotlib, scikit-learn