TANVIR AHMED KHAN

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Education

University of Texas at Arlington   Jan 2021 - Present
Ph.D. in Computer Science
CGPA: 3.857
• Focus: Big data, Machine learning, Software Engineering

University of Dhaka   Jan 2013 - Nov 2017
B.Sc. in Electrical and Electronic Engineering
CGPA: 3.10

Research Interests

• **Big Data:** Distributed Computing, Parallel Processing, Data Stream Processing, Query Processing and Optimization, Cloud Computing
• **Machine Learning:** Distributed Machine Learning and Optimization

Publications

• *Translation of Array-based Loop Programs to Optimized SQL-based Distributed Programs*
M.H. Noor, L. Fegaras, **T.A. Khan**, T. Sultana
Open Journal of Big Data (OJBD) 2022.

• *AlloyFL: A Fault Localization Framework for Alloy*
T.A. Khan, A. Sullivan, K. Wang
The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) Demonstration Track (FSE Demo) August 2021.

Skills

Languages:	C/C++, Python, JavaScript, TypeScript, C#, Java, Scala
Technologies:	Apache Spark, Hadoop, TensorFlow, PyTorch, Angular, React, .NET, Tizen, Android, Play, MySQL, MSSQL, Bash, Git

Professional Experience

University of Texas System   Austin, Texas, USA
Software Developer Intern – Texas Medical & Dental Schools Application Services   May 2022 – Aug 2022
• Worked on TMDSAS portal to upgrade it using latest backend and frontend frameworks
• Created a .NET Web API in the backend keeping the existing database and React in the frontend
• Made the API secure using JSON Web Tokens (JWT)
• Using React and Material-UI in frontend, user experience was vastly improved

Samsung R&D Institute Bangladesh   Dhaka, Bangladesh
Software Engineer – Moblie Application Group 2   Nov 2018 – Dec 2020
• Built UI components in Tizen Wearable framework for Samsung Galaxy smart watches

- Maintained and upgraded large code base of Samsung Wearable device apps
- Designed UI scrolling of Weather app to be 30% faster
- Designed and integrated SmartThings app with new API

Software Engineer Intern   Aug 2018 – Nov 2018

Ixora Solution Ltd.   Dhaka, Bangladesh
Software Developer   Mar 2018 – July 2018

- Designed and built a web application for blast (Bangladesh Legal Aid and Services Trust) to be used by people with disabilities to file cases, link: https://blast-cms.org
- Implemented a web application for managing product deliveries and logistic operations of courier services

Software Developer Intern   Nov 2017 – Feb 2018

Teaching Experience

Aspire Teaching Fellowship   Jan 2022 – Apr 2022
University of Texas at Arlington and Tarrant Community College

- Observed classroom practices, evidence-based teaching, and learning-through-diversity components at a Community College level
- Practiced setting learning goals for classes, creating assessment
- Taught classes using different teaching practices and student activities

Graduate Teaching Assistant   Jan 2021 – Present
University of Texas at Arlington

- CSE 6331: Cloud Computing
- CSE 5335: Web Data Management
- CSE 2315: Discrete Structures
- CSE 1205/2100: Practical Computer Hardware & Software Systems

Certifications

- SWC Professional Certificate – Samsung R&D Institute Bangladesh
- ITEE FE level-2 – IPA: Information-technology Promotion Agency, Japan

Interests

- Chess, Soccer, Travelling, Photography, Food