

# EHSAN UL HAQUE

Software Engineer  
Security & Privacy  
Researcher

## Contact

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## About Me

PhD candidate with experience in research, software engineering, and mentorship. Proficient in designing scalable server-side and database architectures, with expertise in Agile methodologies, full-stack development, and statistical data analysis.

## Skills

Languages	C/C++, C#, Java, Python
Frameworks	.NET, Next.js
Databases	SQL, MySQL, MongoDB
Versioning	Git, TFS
CI/CD	GH Actions, Docker
Project Repo	GitHub, Bitbucket
ORM	Entity Framework
Agile Tools	Jira, Teamwork
Data Analyses	Python, R, SPSS
HCI Tools	Qualtrics, MTurk, Prolific

## Achievements

- Predoctoral Prize for Research Excellence**  
*University of Connecticut* 2023 - 2024  
Awarded to the outstanding PhD researchers (2 times).
- Best Paper Award**  
*ACM CHI Conference* 2023  
The award was given to 35 papers from the 879 accepted papers across 3182 complete submissions: ~1% of total submissions.
- Synchrony Cybersecurity Graduate Fellowship**  
*University of Connecticut* 2022  
Awarded to the promising cybersecurity researchers.

## Experience

- University of Connecticut, Storrs, CT**  
**Graduate Research/Teaching Assistant** 08/2019 - present
  - Conducted robust statistical analysis using Python, R, and SPSS to ensure data driven findings, contributing to inform novel findings through publications in usable security & privacy.
  - Developed MTurk API helpers using C# and .NET, increasing efficiency and reducing time requirement by automating advanced user-studies on MTurk.
  - Wrote a Docker Image to efficiently run OS161 on top of Ubuntu 22.04, mitigating the platform-related dependencies while assisting students to quickly setup OS161 environment locally.
- Enosis Solutions, Dhaka, Bangladesh**  
**Senior Software Engineer** 07/2017 - 07/2019
  - Designed and maintained large-scale relational database architectures in MS SQL Server, helped optimizing query efficiency, bringing down latency in high-demand applications.
  - Contributed to designing full-stack architectures using C#, .NET MVC. Integrated and managed CI/CD pipelines in development and production environments.
  - Mentored 4 newly hired talents by offering technical training, code reviews, and guidance on best practices (SOLID principles), helped efficiently contributing to team environments.
- Software Engineer** 03/2016 - 06/2017
  - Developed scalable REST API services using C# and .NET, streamlining integration with front-end components.
  - Implemented Data Access Layers using Entity Framework, blending business requirements with efficient data accesses.
  - Developed a tool to effectively create offline versions of live web-applications using Shell scripting, enabling webapp availability in low/no Internet scenarios.

## Education

- PhD in Computer Science and Engineering**  
*University of Connecticut* 02/2025 (expected)  
CGPA: 4.0 / 4.0  
Research areas: Usable Security & Privacy, Human-Computer Interaction, AI in Security & Privacy
- BS in Computer Science and Engineering**  
*Bangladesh University of Engineering and Technology* 03/2016  
Relevant courses: Data Structures and Algorithms, Databases and DBMS, Artificial Intelligence, Software Engineering

## Projects

- Amazon MTurk API Helpers** C#, .NET, AWS SDK  
Curated list of helper functions with ability to perform advanced Requester tasks programmatically on Amazon Mechanical Turk crowdsourcing platform.
- Tic-Tac-Toe Game** C#, Unity 2D  
Recreated the iconic Tic-Tac-Toe game, an engaging player experience against a sophisticated AI opponent. The AI opponent leverages the Minimax with Alpha-beta pruning to evaluate optimal moves for player's strategy.
- Amazon Scraping and Parsing Toolkit** Python, Poetry, BS4  
Python application to scrape and parse amazon product reviews with diverse filtering and keyword searching capabilities.
- 15 Puzzle Game** Java swing, Docker, AWS  
A java swing rendition of the 15 puzzle game. For web compatibility, the app was ported on Webswing, dockerized container is deployed on an AWS EC2 instance.