

Ehsan Ul Haque

Ph.D. Candidate with experience across research, software engineering, and mentorship. Skilled in designing scalable server-side, and database architectures, with expertise in Agile methodologies, full-stack development, and statistical data analysis.

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EXPERIENCE

Graduate Research Assistant University of Connecticut

08/2019 - Present

Storrs, CT

Responsibilities

- **Designed and executed research studies** on user interactions, perceptions, and, security and privacy behaviors, contributing to advancing the field of usable security and privacy.
- **Conducted robust statistical data analyses** using Python, R, and statistical software like SPSS to ensuring data-driven findings.
- **Synthesized findings into research publications**, effectively communicating complex data insights and research outcomes to diverse audiences.

Senior Software Engineer

Enosis Solutions [↗](#)

07/2018 - 07/2019

Dhaka, Bangladesh

Responsibilities

- **Designed and maintained large-scale relational database architectures**, optimizing data integrity and query efficiency for high-demand applications.
- **Developed scalable, modular software architectures** with a focus on loose code coupling (LoC), ensuring high maintainability, and adaptability across multiple systems.
- **Mentored newly hired software engineers** by offering technical training, code reviews, and guidance on best practices, contributing to a supportive team environment.

Software Engineer

Enosis Solutions [↗](#)

03/2016 - 06/2018

Dhaka, Bangladesh

Responsibilities

- **Executed full-stack development tasks with a focus on scalable server-side API and microservices**, ensuring robust backend functionality and streamlined integration with front-end components.

EDUCATION

Ph.D. in Computer Science and Engineering University of Connecticut

02/2025

GPA 4.0

Field of research

- Usable Security and Privacy
- Human-Computer Interaction

B.Sc. in Computer Science and Engineering Bangladesh University of Engineering and Technology

03/2016

Relevant courses

- Data Structures
- Algorithms
- Software Engineering
- Database and DBMS

SKILLS

Python

R

C#

Java

C++

Javascript

SQL Server

MySQL

MongoDB

Git

TFS

GitHub

BitBucket

Jira

Docker

GitHub Actions

TeamCity

Octopus

NUnit

MSTest

NLog

Log4Net

SPSS

Vue JS

React JS

Gradio

Streamlit

PyTorch

LangChain

HuggingFace

PROJECTS

Amazon MTurk Requester API Helpers [↗](#)

- Curated list of helper functions with ability to perform advanced *Requester* tasks programmatically on *Amazon Mechanical Turk* crowdsourcing platform.
- **C#, .NET SDK, AWS SDK, ClosedXML**

Amazon Product Review Scraping and Parsing Toolkit [↗](#)

- Python application to scrape amazon product reviews with diverse filtering and keyword searching capabilities.
- Includes two parsers to parse scraped data into structured JSON and CSV formats.
- **Python, Poetry, BeautifulSoup4**

Smart on FHIR Client Portal [↗](#)

- The web portal implements client-level access token-based Auth mechanism with EHR vendor (tested with Logical Sandbox) and integrates FHIR specs for *Practitioner, Patient, and Patient Observations*.
- **VueJS, NodeJS, Docker**

mRNA-based Prostate Cancer Detection [↗](#)

- Trained micro RNA-based classification models to accurately identify prostate cancer. dimension reduction techniques, e.g., *PCA* and *tSNE*; clustering techniques, e.g., *kmeans*; classification techniques, e.g., *k-NN* and *Random Forest*
- **R, RStudio**

3D Render of Mega Structure Taj Mahal [↗](#)

- Developed as a course project, the windows app generates a 3D render of *Taj Mahal*, with viewpoint integrations, featuring day and night modes using global ambient light and a defuse point light moving around the mega structure.
- **C++, OpenGL**

ACHIEVEMENTS

2x Predoctoral Fellowship for Outstanding Scholarly Accomplishments (2023 - 2024)

Synchrony Cybersecurity Graduate Fellowship (2022)

Sigma Graduate Fellowship (2020)