

# EHSAN UL HAQUE

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## EXPERIENCE

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### Graduate Researcher/Teaching Assistant — University of Connecticut, Storrs, CT Aug 2019 – Current

- Conducted UX research on users' security & privacy behavior; leading to 4 publications in renowned HCI venues.
- Developed a library automating Amazon MTurk workflows using C# and .NET, reducing study debriefing time by 70% through automated Worker communications and email logging systems.
- Containerized OS161 development environment with Docker on Ubuntu 22.04, reducing setup time by 50% and eliminating all VM-related errors.

### Senior Software Engineer — Enosis Solutions, Dhaka, Bangladesh Jul 2017 – Jul 2019

- Led Agile sprint planning in Jira for a 5-developer team, managing story point estimation and task distribution to achieve a 95%+ on-time delivery rate with QA and UAT workflows.
- Optimized large-scale SQL Server database architectures through query structure optimizations (CTEs, stored procedures, views), reducing operational latency by 40% for data-intensive applications.
- Developed a full stack data visualization web platform using .NET MVC, JQuery DataTables, and AmCharts, delivering interactive dashboards, reducing data analysis time by 30%.
- Architected end-to-end CI/CD pipelines using TeamCity, Octopus Deploy, and DBUp, accelerating client feedback cycles by 30% and reducing production issues by 20%.
- Implemented a technical acceleration program covering advanced codebase patterns, DevOps workflows, and SOLID principles, reducing new hire integration time by 25% while training 4 engineers to full project contribution.

### Software Engineer — Enosis Solutions, Dhaka, Bangladesh Mar 2016 – Jun 2017

- Architected RESTful APIs and backend services in ASP.NET, achieving 100% unit test coverage with NUnit and using Moq as mocking framework to improve performance.
- Implemented Data Access Layers using Entity Framework, blending business requirements with efficient data retrievals for high-throughput applications.
- Developed centralized .NET logging library using NLog and Log4Net, reducing logging implementation time by 60% across 5 enterprise applications.
- Developed an automated pipeline using PowerShell to generate offline versions of high-impact applications, reducing manual setup time by 80%.

## EDUCATION

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### Ph.D. in Computer Science and Engineering — University of Connecticut Apr 2025 (expected)

- **GPA:** 4.0/4.0
- **Research Interest:** Usable Security & Privacy, Human-Computer Interaction, AI in Security & Privacy.
- **Awards:** Predoctoral Prize for Research Excellence (awarded to outstanding Ph.D. students), Best Paper Award at CHI '23 (top 1% of papers), Synchrony Cybersecurity Graduate Fellowship (awarded to promising cybersecurity researchers).

### M.Sc. in Computer Science and Engineering — University of Connecticut Dec 2024

### B.Sc. in Computer Science and Engineering — Bangladesh University of Engineering and Technology Mar 2016

- **Awards:** Dean's List Award (awarded to the students performing best in an academic year).

## PERSONAL PROJECTS

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### Fullstack Job Application Tracker Go, GORM, PostgreSQL, React, Node.js, Typescript, Azure, Docker

- Architected and developed a full-stack job tracking system with microservices architecture, orchestrating API, database, and backup services through Docker Compose for seamless deployment and scalability.
- Built REST API with Go Fiber/GORM featuring advanced querying, pagination, and multi-part file upload support.
- Integrated a resume management system leveraging Azure Blob Storage, supporting job-resume relationship tracking.

### Amazon Product Review Scraping and Parsing Toolkit Python, Poetry, BeautifulSoup4

- Implemented multi-category product and review extraction tool with proxy integration for reliable web scraping.
- Developed flexible filtering system to allow review extraction based on keywords, ratings, and categories.
- Integrated configurable export formats (CSV/JSON), enabling seamless integration with analytics tools.

## TECHNICAL SKILLS

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- **Languages & Databases:** Python, C#, Go, Java, C, C++, Microsoft SQL Server, PostgreSQL, MySQL, MongoDB
- **Backend:** .NET Framework, .NET Core, Entity Framework, NLog, Log4Net, NUnit, MSTest, Ninject, Node.js
- **Frontend:** HTML, CSS, TypeScript, JavaScript, jQuery, Ajax, React, Vue, Next.js, AmCharts, D3, Tailwind
- **Others:** AWS (IAM, EC2, S3), Azure (Object Storage), Docker, Git, Jira, GitHub, GitHub Actions, TeamCity, Unix, Linux