

CV of Fayika Farhat Nova

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INTERESTS

Online Harassment, Gender Constructions, Privacy, Anonymity, Content Moderations, Ethical Implications of Data

EDUCATION

Marquette University, Wisconsin, USA

PhD in Computational Sciences (Aug 2017-Present) [CGPA-3.814/4]

Asian University for Women, Chittagong, Bangladesh

B.Sc. in Computer Science/Information and Communication Technology (Sep 2011- May 2016) [CGPA-3.75/4]

Thesis: An Approach to Enhanced Load Balancing in SDN with Floodlight Controller

MAJOR PUBLICATIONS

- **[CSCW'20]** “Understanding How Marginalized Hijra in Bangladesh Navigate Complex Social Media Ecosystem” with Michael Ann DeVito, Pratyasha Saha, Kazi Shohanur Rashid, Shashwata Roy Turzo, Sadia Afrin & Shion Guha, *In Proceedings of the companion publication of the 23rd ACM conference on Computer supported cooperative work & social computing*, 2020.
- **[CSCW'19]** “Sharing Of Public Harassment Experiences On Social Media In Bangladesh” with Pratyasha Saha, Md. Shafiur Raihan Shafi, & Shion Guha, *In Proceedings of the companion publication of the 22nd ACM conference on Computer supported cooperative work & social computing*, 2019.
- **[ICTD'19]** “Online Sexual Harassment over Anonymous Social Media in Bangladesh” with MD. Rashidujjaman Rifat, Pratyasha Saha, Syed Ishtiaque Ahmed & Shion Guha, *In Proceedings of the Tenth International Conference on Information and Communication Technologies and Development*, 2019.
- **[CSCW'18]** “Silenced Voices: Understanding Sexual Harassment on Anonymous Social Media Among Bangladeshi People” with MD. Rashidujjaman Rifat, Pratyasha Saha, Syed Ishtiaque Ahmed & Shion Guha, *In Proceedings of the companion publication of the 21st ACM conference on Computer supported cooperative work & social computing*, 2018.
- **[HCIxB'18]** “Sarahah in Bangladesh: A Study on Anonymity and Social Media in Developing Countries”, with MD. Rashidujjaman Rifat, Pratyasha Saha, Syed Ishtiaque Ahmed & Shion Guha. *In Proceedings of the companion publication of the Third ACM conference on Human Computer Interaction Across Border*, 2018.

SELECTED RESEARCH AND PROJECTS

Research Assistantship: Computational Social Sciences Lab

Study the socio-cultural phenomena like harassment, gendered perspectives, privacy, anonymity etc. through the lens of technologies in developing and marginalized context. Our focus is to analyze how in developing and marginalized community people perceive different social issues, valuable in HCI and ICTD communities, through online platforms.

Database Project: Bangladesh Birth Registration Bureau

Language: CSS, HTML, PHP

Database: MySQL

Created a relational database for storing human birth and death information. Implemented a PHP-based web user interface for users along with the support of password and role-based user authentication for accessing and viewing the data. Implemented support for user-defined custom queries and data visualization on web interface.

Mobile Application Project: SafeKeeper

Language: Java

Database: MySQL

Software: Eclipse, Android SDK

Created a Java-based mobile user interface for communication between user and law enforcement group. Created a relational database to store location, user and police station information. Implemented a password-based authentication for users. Interfaced with mobile GPS to locate the user and identify the nearest police station. Implemented automated message alert system.

Networking Project: Enterprise Network Analysis

Discover network-level connectivity graph of AUW. Analyzed network data and identified strength and limitation of current network architecture. Proposed an enterprise-level network solution to improve scalability and robustness

WORK EXPERIENCES

HSIR Research Protocol Assistant

May 2020-Present

Parkview Mirro Center for Research & Innovation, Fort Wayne, Indiana, USA

Work with a team of researchers in designing multiple Health services and Informatics related study protocols and analyzing collected data.

Teaching Assistant- Programming Language

Marquette University, Wisconsin, USA

Work as a teaching assistant under Dr. Michael C. Slattery and assist him in the courses with grading and office hours for around 40 students to help them learning Scheme, Functional Programming, using of DrRacket as a graphical IDE.

Research Assistant- Computational Social Sciences

Aug 2017-Present

Marquette University, Wisconsin, USA

Work as research assistant under Dr. Shion Guha and assist him in his researches with model build up, data collection and analysis, result outcome. Do rigorous research related to computational social sciences topics. Communicate with other academic institution to build up professional relation and work in joint projects

Coordinator- Marketing, Sale and Solution Department

Jan 2017-June 2017

Huawei Technologies and Co., Bangladesh

Coordinate among the Marketing, Sale and Solution departments and with CTO regarding necessary departmental decisions. Update periodically the ongoing technical projects in Solution department and update the sales target and achievements. Arrange regular sales team meeting and Solution directors meeting with CTO to follow up the annual sale target. Follow up with current tech trend and come up with new marketing strategies

Lecturer- CSE and EEE Department

Sept 2016-Jan 2017

Uttara University, Bangladesh

Teach fundamental Computer Science theoretical concepts to three different sections consisting around 100 students. Teach Programming language (C) and conduct lab class. Engage students in different class activities like group presentation, and discussion on programing concepts and problems

Freelancing Technical Writer- Web-Based “Information Repository” for K4DM

Oct 2016-Nov 2016

ERD, UN Wing, UNDP

Consult the National Consultant of Knowledge for Development Management (K4DM) Project for specification details and requirements to develop the web-based documentation software. Research on different existing web-based documentation systems for knowledge management and outlined an improved software for the ERD, UN wing. Generate the detailed User Requirement Specifications based on the required system descriptions for developing the software “Information Repository”

Intern- BRAC Urban Innovation Challenge

Aug 2016-Oct 2016

BRAC Social Innovation Lab, Dhaka, Bangladesh

Incorporate the concepts of three urban issues- Transportation, Health, Skill in Urban Innovation Challenge program design. Evaluate the process of choosing Campus Ambassadors for UIC program. Work as Mentor for the selected Campus Ambassadors and help to generate resource for the UIC program and Campus Ambassadors. Design the Incubation model for the UIC program and support Communications and Urban Development Program Department for website, as determined by Social Innovation Lab (SIL)

Intern- OCS Modernization (Convergent Billing and Charging System)

June 2015-Aug 2015

Robi Axiata Ltd, Dhaka, Bangladesh

Work with Planning Department to create requirements for Convergent Billing and Charging System (CBS) and document them. Present billing, mediation and provision systems to the vendors (Ericsson, Huawei) and design new network system to bring prepaid and postpaid billing systems under one platform

Teaching Assistant- Data Structure and Algorithm

Aug 2015-Dec 2015

AUW, Chittagong, Bangladesh

Assist undergraduate students in algorithm and programming labs. Hold office hours for answering teaching programming and algorithmic concepts and prepare class materials for lab class

Intern - USAID Agriculture Extension Support Activity Project

May 2014-July 2014

mPower Social Enterprises Ltd., Dhaka, Bangladesh

Work on requirement gathering and user study for ICT usage in Agriculture. Design and prepared software requirements specification and project related documentation. Create a user interface and deliver a system using Balsamiq software to use in various ICT applications that aid the technical team. Work with the software development team on developing mobile and web application using SQL and Android SDK

HONORS, AWARDS and SV Experiences

- Worked as an SV for CSCW 2019
- Awarded as a Scholar to Attend Grace Hopper Celebration 2019
- Received Funding to Attend CRA-W Grad Cohort for Women Workshop 2019
- Received Doctoral Consortium Funding for ICTDX 2019
- Worked as an SV at ICTDX, Ahmedabad, India 2019
- Received SIGCHI Travel Grant for CSCW Conference (2018)
- Nominated Rising Star of Wedu Leadership Program (2015)
- Received Chevron Scholarship (2012)

TECHNICAL SKILLS AND LANGUAGES

- Programming Languages: C/C++, Java, R, Python, Scheme
- Styling & Scripting Languages: CSS, HTML, PHP, JS
- Framework: Bootstrap
- Storage: MySQL, Apache
- IDE: Eclipse
- Tools/Software/Library: SPSS, RStudio, DrRacket, Matlab, Adobe Premiere Pro, Balsamiq, Floodlight