

# MITRASREE DEB

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## EDUCATION

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**Western Washington University** Expected: June, 2026  
MS in Computer Science  
Research Focus: Human-Computer Interaction, Data Analysis, Affective Computing

**Bangladesh University of Engineering and Technology (BUET)** 2014 - 2018  
Bachelor of Science in Computer Science and Engineering (B.Sc.Engg.)

## EXPERIENCE

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**Graduate Teaching Assistant** Bellingham, WA, USA  
Department of Computer Science April 2025 - Present  
Kitto Grad Hub January 2025 - Present

**KIND (Komputing for INclusion and Disability) Research Group**  
Advisor: Dr. Yasmine Elglaly January 2025 - Present  
Graduate Research Student Bellingham, WA, USA

**NEAT (Next Generation Effective Affective Technology) Research Group**  
Advisor(s): Dr. Moushumi Sharmin, Dr. Shameem Ahmed August 2021 - Present  
Research Student, Lab Manager Bellingham, WA, USA

**Have A Talk, Ltd.** July 2022 - August 2024  
IT Consultant (Data Analytics, Business Intelligence (BI)) Tokyo, Japan

- Data Analysis and Visualization using PowerBI (DAX), BigQuery, Looker Studio, Power Automate
- System Design and Development (Python, Web Scraping, ETL, etc.)

**Fujitsu Research Institute (FRI)** March 2020 - June 2022  
Associate IT Consultant (IT Market Research, Offshore Business Development) Tokyo, Japan

- IT Market Research, Survey, Trend Analysis and Reporting to internal and external stakeholders
- Offshore Business Development with global clients (USA, EU, Singapore) on emerging technologies

**Beyond the Hills** August 2020 - Present  
Founding Member, Strategic Partnership Manager Dhaka, Bangladesh

- Nonprofit initiative to promote the culture of Indigenous communities in Bangladesh
- Team-focused, strategic and social development project management, social media branding

**CoKreates, Ltd.** February 2019 - February 2020  
Fullstack Software Developer (Frontend, Backend) Dhaka, Bangladesh

- Worked closely with the HRM team to design and develop a robust scalable e-Governance System
- Contributed to the Data pipe-lining and infrastructure

## RESEARCH INTEREST

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I aspire to dive deeper into the social issues of communities around me. Qualitative research methods and data analysis in Human-Computer Interaction (HCI), User Experience (UX), ICT4D, Ethnography, and Affective Computing are closely aligned with my research interests which I want to pursue actively.

## TRAINING & TECH REVIEWER EXPERIENCE

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### IEEE COMPSAC 2025

April 2025

*Sub-Reviewer*

### ShoktiKonna, Leadership Training for Women Engineers & Solve-a-thon

World Bank Group, WePOWER, Devtale Partners

April 2022 - August 2022

*Selected Participant & Graduate of the 2022 Cohort*

### Fujitsu Research Institute (FRI), Tokyo, Japan

September 2019 - December 2019

*Selected Graduate IT Trainee (Data Science)*

### Anita Borg Institute (ABI)

2019 - 2024

Graduate Reviewer, "Pass It On" Awards Submissions (GHC 2024)

Committee Member & Reviewer, Human-Computer Interaction Committee (GHC 2021)

Graduate Reviewer, GHC Scholarship Application Review Committee (GHC 2019)

Undergraduate Student Scholar (GHC 2015, GHC India 2015)

## LANGUAGE SKILLS

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**Bangla**

Native Proficiency

**English, Hindi**

Professional Proficiency

**Japanese**

Limited Professional Proficiency

## TECHNICAL SKILLS

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**Language**

Python, Java, C, C++, R, HTML, CSS

**Frameworks**

SpringBoot, Angular, Flask, Scrapy

**Version Control**

Git

**Tools & Softwares**

ATLAS.ti, Latex, Jinja 2.0, Kafka, Cisco Packet Tracer, Insomnia

**Database**

SQL, Postgres, Flyway

**Design Tools**

Balsamiq, Draw.io, Adobe InDesign, Figma, MS Powerpoint

**Data/Business Analytics**

MS Excel, Power BI (DAX), BigQuery, Looker Studio,

Power Automate, PowerApps

**Business Skills**

Strategic Planning & Management, Qualitative Analysis, Business Case Matrix, Problem Solving, Feasibility Analysis, Project Management, Leadership, Interpersonal Communication (senior and C-level stakeholders), etc.

## PUBLICATIONS

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- 'Unmochon': A Tool to Combat Online Sexual Harassment over Facebook Messenger  
[Best Paper Honorable Mention Award \(Top 5%\) in CHI 2021](#)  
Sharifa Sultana, **Mitrasree Deb**, Ananya Bhattacharjee, Shaid Hasan, S.M.Raihanul Alam, Trishna Chakraborty, Prianka Roy, Samira Fairuz Ahmed, Aparna Moitra, M Ashraful Amin, A.K.M. Najmul Islam, Syed Ishtiaque Ahmed
- "The Good, the Bad, and the Potential of AI-based Systems in Computing Education"  
[Accepted Paper in IEEE COMPSAC 2025](#)  
Adrian Heffelman\*, Wilson Zuber\*, **Mitrasree Deb**, Aishwarya Manjunath, Hamza Magsi, Hanze Aggabao, Mirza Tairin, Maya Galley and Moushumi Sharmin
- Jolaboddhota: Re-designing Drainage System by Solving Water-logging Using Algorithmic Approach  
**Mitrasree Deb**, Dipto Borua, Dr. Sadia Sharmin  
International Humanitarian Technology Project Competition (Proceedings of IHTPC 2017)  
Accepted Poster in International Conference on Networking, Systems, and Security (NSysS 2017)

## RESEARCH WORKS

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- “Actually, you could say that my iPhone is equivalent to my life”: The Role of Everyday Tools and Technology on the Quality of Life of Parents of Autistic Children  
Moushumi Sharmin, **Mitrasree Deb**, Shameem Ahmed  
(2022 - 2024)
- Bone DICOM Image Processing: Segmentation & Stacking  
Akib Ahmed, **Mitrasree Deb**, Mahmuda Naznin  
In Collaboration with Dr. Tanvir Rahman Faisal for the DICOM dataset  
(Undergraduate Thesis, April 2018)

## AWARDS

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<b>AI for Bangla 1.0, Honorable Mention, Top 10 Finalist</b> Project: ”Language Translation Tool for Indigenous Communities of Bangladesh”	2021-2022
<b>Fujitsu Research Institute(FRI) President Recognition</b> Team Acknowledgement for Bangladesh ICT Human Resource Development Project Contribution	2020
<b>Financial Inclusion Data Hackathon 2019, 1st Runner Up</b> United Nations Capital Development Fund, European Union, a2i (Govt. of Bangladesh) Project: “Bondhu: The Financial Consultant of Rural People”	2019
<b>Anita Moonshot Codeathon, 6th of Top 8 Projects</b>	2018
<b>Techfest IIT Bombay 2017-18, Finalist</b>	2018
<b>Techfest 2017-18 Bangladesh Round, Champion</b>	2017
<b>IEEE R10 HTC Idea Contest: WIE Track, Runner Up</b>	2017
<b>TechBeez Bangladesh: Women in ICT, Champion</b> Project: “V for vagina” , “Feminae Period Kit”	2017
<b>Hult Prize @BUET, Semi-Finalist</b> Hult Prize Foundation, Hult Prize BUET Chapter Theme: “Awakening Human Potential: Refugee Crisis”	2017
<b>IEEE SS12 Asia-Age of Innovation: Project Competition &amp; Maker Fair, Honorable Mention (4th of Top 5)</b> Issued by: IEEE Humanitarian Activities Committee, Bangladesh Section Project: “Jolaboddhota”	2017
<b>National Hackathon for Women, 1st Runner Up</b> ICT Division, Govt. of Bangladesh, (Category: Culture & Tourism)	2017
<b>UNDP Earthquake Preparedness: ShakeIT App Challenge, Finalist</b> Govt. of Bangladesh, a2i & UNDP Bangladesh	2016
<b>WE CAN-Daffodil IT App Fellowship, Finalist</b> WE CAN Humanitarian Foundation	2016
<b>World Environment Day 2015: National Essay Writing Competition, 3rd Prize</b> Resilience to Disaster, The Hunger Project Bangladesh, University of Dhaka Essay Topic: “Eco Urbanization”	2015
<b>BWIT App Contest 2015, 1st Runner Up</b> Project: “TechWomen”	2015

## SCHOLARSHIPS & GRANTS

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### Individual Grant & Scholarships

- Directorate of Students' Welfare Grant, BUET 2018  
For attending the Grand Finale of Techfest IIT Bombay 2017-18 as National Champion
- Grace Hopper Celebration of Women in Computing (GHC) Student Scholarship 2015  
Sponsored by: Google Inc.
- Grace Hopper Celebration of Women in Computing (GHC India) Student Scholarship 2015
- Board Merit Scholarship, Higher Secondary School Certificate Exam 2014 - 2018  
Category: Talent pool, Education Board, Govt. of Bangladesh
- Board Merit Scholarship, Secondary School Certificate Exam 2012 - 2013  
Category: General, Education Board, Govt. of Bangladesh

### Team Grant

- ULAB Diversity Fellowship, CES, ULAB (for "Beyond the Hills") 2023
- AI for Bangla 1.0 Grant, ICT Division (for "Beyond the Hills") 2021-2022
- Financial Inclusion Data Hackathon Grant, UNCDF 2019
- Techbeez Champion Grant for Women Healthcare, Edward M Kennedy Center 2017

## CO-CURRICULAR ACTIVITIES

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Graduate Student Representative, CS, WWU	2024 - Present
South Asian Student Association (SASA), WWU, Board Member	2024 - Present
Pawmang Residential Primary School (Bandarban), Volunteer & Activist	2019 - Present
Google Developers Group Dhaka, Student Ambassador	2016 - 2019
Bangladeshi Women in Computer Science & Engineering (BWCSE), Content Provider	2016 - 2018
BUET Robotics Society (BRS)	2016 - 2018
<i>Webmaster (2017 - 2018), Executive Member (2016 - 2017)</i>	
Hult Prize @BUET, Student Ambassador	2016 - 2018
BUET Career Club, Panel Member	2016 - 2017
Environment Watch:BUET	2016 - 2019
<i>Vice President (2018), Assistant Media &amp; Publication Secretary (2017), Executive Member(2016)</i>	
National High School Programming Contest 2015, MC	2015
Class Representative (CR), CSE Department, Batch 2014-2018	2014 - 2016
Badhan: Blood Donation Organization, Batch Representative & Volunteer	2014 - 2020