MITRASREE DEB

mitrasree091@gmail.com, debm@wwu.edu

EDUCATION

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

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

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

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

Bangla	Native Proficiency
English, Hindi	Professional Proficiency
Japanese	Limited Professional Proficiency

TECHNICAL SKILLS

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

- '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

- "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

AI for Bangla 1.0, Honorable Mention, Top 10 Finalist   2021-2022
Project: "Language Translation Tool for Indigenous Communities of Bangladesh"

Fujitsu Research Institute(FRI) President Recognition   2020
Team Acknowledgement for Bangladesh ICT Human Resource Development Project Contribution

Financial Inclusion Data Hackathon 2019, 1st Runner Up   2019
United Nations Capital Development Fund, European Union, a2i (Govt. of Bangladesh)
Project: "Bondhu: The Financial Consultant of Rural People"

Anita Moonshot Codeathon, 6th of Top 8 Projects   2018
Techfest IIT Bombay 2017-18, Finalist   2018
Techfest 2017-18 Bangladesh Round, Champion   2017
IEEE R10 HTC Idea Contest: WIE Track, Runner Up   2017
TechBeez Bangladesh: Women in ICT, Champion   2017
Project: "V for vagina" , "Feminae Period Kit"

Hult Prize @BUET, Semi-Finalist   2017
Hult Prize Foundation, Hult Prize BUET Chapter
Theme: "Awakening Human Potential: Refugee Crisis"

IEEE SS12 Asia-Age of Innovation: Project Competition & Maker Fair, Honorable Mention (4th of Top 5)   2017
Issued by: IEEE Humanitarian Activities Committee, Bangladesh Section
Project: "Jolaboddhota"

National Hackathon for Women, 1st Runner Up   2017
ICT Division, Govt. of Bangladesh, (Category: Culture & Tourism)

UNDP Earthquake Preparedness: ShakeIT App Challenge, Finalist   2016
Govt. of Bangladesh, a2i & UNDP Bangladesh

WE CAN-Daffodil IT App Fellowship, Finalist   2016
WE CAN Humanitarian Foundation

World Environment Day 2015: National Essay Writing Competition, 3rd Prize   2015
Resilience to Disaster, The Hunger Project Bangladesh, University of Dhaka
Essay Topic: "Eco Urbanization"

BWIT App Contest 2015, 1st Runner Up   2015
Project: "TechWomen"

SCHOLARSHIPS & GRANTS

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

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
Webmaster (2017 - 2018), Executive Member (2016 - 2017)	
Hult Prize @BUET, Student Ambassador	2016 - 2018
BUET Career Club, Panel Member	2016 - 2017
Environment Watch:BUET	2016 - 2019
Vice President (2018), Assistant Media & Publication Secretary (2017), Executive Member(2016)	
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