S M Hasan Mansur

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PhD student in CS with 5+ years of experiene in Software Development, seeking **Intern** (full/part-time) roles

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RESEARCH INTERESTS

Software Engineering, HCI, Machine Learning

EDUCATION

George Mason University
PhD student | Computer Science
Advisor: Dr. Kevin Moran
CGPA: 3.73 | Aug 2018 - Present

Shah Jalal University of Science & Technology, Bangladesh
Bachelor's | Computer Science
CGPA: 3.54 | Apr 2002 - Apr 2007

AWARDS

NSF Travel Award
ICSE'23 | April *2023*

Best Poster Presentation Award
GMU CS | *May 2022*

Summer Research Initiation Award | GMU CS | *May 2019*

PROFESSIONAL SERVICES

Co-Reviewer | MSR'22

External Reviewer | ICSE'23, SANER'23, ASE'22, SANER'22, ICPC'21, ICSE'21, MSR'21

VOLUNTEERING

ASSIP, GMU
High School & Undergrad Internship
Co-Mentor | *May 22 - Aug 22*

BDGSA, GMU
Student Organization
Director, Web Services | *2021-22*

KIN, SUST, Bangladesh
Humanitarian Organization
Member | *2002-07*

TECHNICAL SKILLS

- Python, Javascript, Java, C
- PyTorch, OpenCV, spaCy
- Node.js, Express.js, REST API
- MySQL, MongoDB, Redis, Elasticsearch
- Git, Docker, AWS
- Microservices, TDD

PUBLICATIONS

- **S M Hasan Mansur**, Sabiha Salma, Damilola Awofisayo, Kevin Moran, *"AidUI: Toward Automated Recognition of Dark Patterns in User Interfaces",* ICSE'23, https://arxiv.org/abs/2303.06782
- Junayed Mahmud, Nadeeshan De Silva, Safwat Ali Khan, Seyed Hooman Mostafavi, **S M Hasan Mansur**, Oscar Chaparro, Andrian (Andi) Marcus, Kevin Moran, *"On Using GUI Interaction Data to Improve Text Retrieval-based Bug Localization"*,ICSE'24, to appear
- Tyler Wendland, Jingyang Sun, Junayed Mahmud, **S M Hasan Mansur**, Steven Huang, Kevin Moran, Julia Rubin, Mattia Fazzini, *"AndroR2: A Dataset of Manually-Reproduced Bug Reports for Android apps",* MSR'21, https://arxiv.org/abs/2106.08403

EXPERIENCE

George Mason University | *Graduate Research Assistant*   May 2021 - Present
- Working on research projects focused on developing automated approaches to help facilitate Ethical Software Design, Software Evolution, and Software Accessibility

George Mason University | *Graduate Teaching Assistant*   Aug 2018 - May 2021
- Assisted in mentoring students, grading assignments, and proctoring exams

Ice9 Interactive, Bangladesh | *Software Engineer*   Apr 2017 - Jul 2018
- Worked on the engineering and infrastructure team responsible for developing social media query and analytics platforms of project *'smashboard.co'*

Synchronous ICT, Bangladesh | *Software Engineer*   Feb 2015 - Apr 2017
- Lead the backend engineering team responsible for developing user management and search platforms of project *'ComX'*

Dcastalia, Bangladesh | *Software Engineer*   Aug 2013 - Jan 2015
- Developed and published native Android application *'HE Business Manager'*

Daimler AG, Germany | *Student Intern*   Oct 2012 - Jul 2013
- Developed a key-value pair parser for environment perception data

Grameenphone Ltd, Bangladesh | *System Engineer*   Jul 2007 - Feb 2011
- Member of the transmission optimization team to serve over 20 million users

SELECTED PROJECTS

AidUI | *SAGE lab, GMU*   May 2021 - Present
- A novel automated approach to detect deceptive UI designs
- *Role: Principal Contributor*

MotorEase | *SAGE lab, GMU*   May 2022 - Present
- A novel approach to detect motor-impairment accessibility violations in apps
- *Role: Co-Contributor*

GUIEvo | *SAGE lab, GMU*   Jan 2022 - Present
- A novel approach to detect GUI changes between existing releases and proposed mock-ups, and generate updated GUI metadata for the new release
- *Role: Co-Contributor*

Drishtipat, Ontorjal | *Open Source*   Feb 2020 - Aug 2020
- Drishtipat is an implementation of different Computer Vision concepts
- Ontorjal is an implementation of DNS client and Distance Vector Routing protocol
- *Role: Principal Contributor*

smashboard.co | *Ice9 Interactive, Bangladesh*   Apr 2017 - Jul 2018
- A CRM platform for social media query management and analytics
- *Role: Co-Contributor*