

S M Hasan Mansur

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

RESEARCH INTERESTS

Software Engineering, HCI, Machine Learning

EDUCATION

George Mason University

PhD student | Computer Science
CGPA: 3.73 | Aug 2018 - Present

Master's | Computer Science
CGPA: 3.73 | May 2023

Shah Jalal University of Science & Technology, Bangladesh

Bachelor's | Computer Science
CGPA: 3.54 | 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 Ltd., 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

RESEARCH PROJECTS

AidUI | Principal Contributor | SAGE lab, GMU

May 2021 - Present

- A novel automated approach that uses computer vision and natural language processing techniques to recognize a set of visual and textual cues in application screenshots that signify the presence of deceptive UI designs

MotorEase | Co-Contributor | SAGE lab, GMU

May 2022 - Present

- A novel approach that adapts computer vision and natural language processing techniques to enable a semantic understanding of app UI screens, enabling the detection of motor-impairment accessibility violations in apps

GUIEvolution | Co-Contributor | SAGE lab, GMU

May 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

REFERENCES

Dr. Kevin Moran, Assistant Professor (Primary Advisor)
Computer Science, George Mason University

Email: kpmoran@gmu.edu

Dr. Wing Lam, Assistant Professor

Computer Science, George Mason University

Email: winglam@gmu.edu