S M Hasan Mansur

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RESEARCH INTERESTS

Software Engineering, HCI, Machine Learning

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

REFERENCES

Dr. Kevin Moran
Assistant Professor
Computer Science
University of Central Florida
Email: kpmoran@ucf.edu

Dr. Wing Lam
Assistant Professor
Computer Science
George Mason University
Email: winglam@gmu.edu

EDUCATION

- **George Mason University** | USA
  - Ph.D. in Computer Science | *Advisor: Kevin Moran* *Aug 2018 - Dec 2024 (expected)*
  - M.S. in Computer Science | *CGPA: 3.73* *May 2023*
- **Shah Jalal University of Science & Technology** | Bangladesh
  - B.S. in Computer Science | *CGPA: 3.54* *Apr 2007*

PUBLICATIONS

- 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
- **S M Hasan Mansur**, Kevin Moran, *"Toward Automated Tools to Support Ethical GUI Design"*, ICSE'23: Companion Proceedings, https://ieeexplore.ieee.org/abstract/document/10172491
- **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
- 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

GUIEvo | 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