

S M Hasan Mansur

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PhD student in CS with 5+ years of experience in Software Development, seeking full-time Summer Intern roles

RESEARCH INTERESTS

Software Engineering, Machine Learning, Computer Vision

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

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, to appear
- Zihe Song, **S M Hasan Mansur**, Ravishka Rathnasuriya, Tsolmon Enebish, Yumna Fatima, Wei Yang, Kevin Moran, Wing Lam, "*An Empirical Investigation into the Practical Utility of Android Record & Replay Tools*", under review
- 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*

MIRACLE | *SAGE lab, GMU* May 2022 - Present

- A novel approach to detect motor-impairment accessibility violations in apps
- Role: *Co-Contributor*

GUIEvolution | *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*