

# 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

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## 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, <https://arxiv.org/abs/2303.06782>
- Arun Krishnavajjala, **S M Hasan Mansur**, Jusitn Jose, Kevin Moran, "*MIRACLE: Automated Detection of Motor-impairment Accessibility Issues in Mobile App UIs*", 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

**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