

# S M Hasan Mansur

🏠 3141 Bayswater Ct, Fairfax, VA 22031 ☎ 571-354-5264 ✉ smhasanmansur@gmail.com

🌐 hasanmansur 📄 smhasanmansur 🌐 smhasanmansur.netlify.app

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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

### 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

### 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