



Asif Imran

Software Engineering Researcher

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 in/in/asif-imran

Education

University at Buffalo | PhD Computer
Science and Engineering | 2022 |
GPA:3.77/4

IIT, University of Dhaka | M.Sc. in
Software Engineering | 2014 |
GPA:4/4

IIT, University of Dhaka | Bachelors in
IT | 2012 | GPA:3.93/4

Projects

Academic

OneDataShare

Organization: University at Buffalo

Role: Senior Software Engineer

Notable Contributions: Developed
integration of multiple transfer
protocols, conducted stress testing,
and analyzed software smells

URL: <https://www.onedatashare.org/>

ArchSmellDetector

Organization: University at Buffalo

Role: Chief Researcher

Notable Contributions: Developed a
tool which detected architectural
smells in Java and associated
community smells

Professional

QLFS

Organization: World Bank

Role: Data Management Consultant

Notable Contributions: Designed data
entry, storage, and retrieval platform
for Quarterly Labor Force Survey of
Bangladesh Bureau of Statistics (BBS)

URL: <http://bbs.portal.gov.bd/>

Research & Work Experience

- Since Jun'20 Research Intern IBM T. J. Watson
Code smell analysis and refactoring to optimize application perfor-
mance and resource utilization
- May-Jul'19 Course Instructor University at Buffalo
Taught full course of Operating Systems
Taught full course of Computer Vision and Image Processing
- Aug-Apr'19 Teaching Assistant University at Buffalo
Solved issues in PintOS project regarding multi-threading, physical
and virtual memory management.

Selected Publications

- SEKE'20 International Conference on SE and KE KSI
The Impact of Auto-Refactoring Code Smells on the Resource Utiliza-
tion of Cloud Software
- IST Information and Software Technology Elsevier
Software Sustainability: A Systematic Literature Review and Compre-
hensive Analysis (submitted)
- ICSME'19 35th International Conference on Software Maintenance and Evolu- IEEE
tion
Design Smell Detection and Analysis for Open Source Java Software
- Big Data'18 International Conference on Big Data IEEE
GreenDataFlow: Minimizing the Energy Footprint of Global Data Move-
ment
- CLOSER'18 8th International Conference on Cloud Computing and Services Sci- ACM
ence
OneDataShare-A Vision for Cloud-hosted Data Transfer Scheduling
and Optimization as a Service
- JUCS Journal of Universal Computer Science JUCS Consortium
Web Data Amalgamation for Security Engineering: Digital Forensic
Investigation of Open Source Cloud.

Achievements

- Feb'18 2019 Global Innovation Challenge LIGHT Fellow
Helped select inclusive, culturally-relevant background resources,
design outreach methods and materials to encourage other interna-
tional students to participate, and help to plan 2019 Global Innova-
tion Challenge
- Jun'17 CSE Chair's Fellowship
Awarded CSE Chair's Fellowship for 2017-2018 Academic year in
University at Buffalo
- Oct'18 Speaker - 2nd URSSI workshop
Attended and gave lightning speech at the 2nd URSSI workshop in
Chicago regarding OneDataShare
- Jul'15 Academic Excellence Gold Medal
Awarded prestigious gold medal for academic excellence by the Pres-
ident of Bangladesh