

NASIF IMTIAZ

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SUMMARY

I am a Ph.D. student with a research focus on software engineering and software security. My research work primarily involves mining software repository data and security analysis of open source projects to characterize the security best practices. **I am looking for Summer'21 internship opportunities in Software Engineering, Data Science, or Research positions.**

EDUCATION

North Carolina State University (NCSU), Raleigh, NC <i>Ph.D. in Computer Science - Specialization in Software Engineering</i>	Aug 2017 - May 2022 (Expected) GPA 3.63/4.00
Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh <i>B.Sc. in Computer Science and Engineering</i>	May 2012 - Feb 2017 GPA 3.64/4.00

EXPERIENCE

Graduate Research Assistant <i>DLF, RealSearch Lab</i>	August 2017 - Present NCSU
Research Intern <i>One Engineering Systems</i>	May 2019 - Aug 2019 Microsoft Research

TECHNICAL SKILLS

- **Languages:** Python, Java, SQL, R, C/C++, Unix Shell, Latex, HTML, Azure Kusto
- **Tools:** Git, Notebooks, Pandas, NumPy, SciPy, Matplotlib, Scikit-learn, Selenium, MySQL
- **Research Methods:** Qualitative & Quantitative analysis, Open coding, Interviews & Survey, Exploratory data analysis, Statistical models, Hypothesis testing, Security testing
- **Data Science:** Feature selection, Principal component analysis, Missing data & imputation, Supervised models

SELECTED PUBLICATIONS

How Do Developers Act on Static Analysis Alerts? An Empirical Study of Coverity Usage <i>Nasif Imtiaz, Brendan Murphy, Laurie Williams</i>	Oct 2019 Berlin, Germany
• Proceedings of the 30th International Symposium on Software Reliability Engineering (<i>acceptance rate: 31%</i>)	
Investigating the Effects of Gender Bias on GitHub <i>Nasif Imtiaz, Justin Middleton, Joymallya Chakrabarty, Neil Robson, Gina Bai, Emerson Murphy-Hill</i>	May 2019 Montreal, Quebec
• In Proceedings of the 41st ACM/IEEE International Conference on Software Engineering (<i>acceptance rate: 21%</i>)	

PROJECTS

Vulnerable Dependencies <i>Research Project, RealSearch Lab</i>	Aug 2019 - Present NCSU
• Studying vulnerable dependency detection tools to identify current gaps; GitHub project	
Developer Adoption of Security Tools <i>Research Project, RealSearch Lab</i>	Aug 2018 - Aug 2020 NCSU
• Analyzed the fix rate and fix complexity for Coverity alerts from historical data; GitHub project	
• Studied <i>StackOverflow</i> posts to categorize developer challenges in responding to static analysis alerts	
• Published two conference papers; Collaborated with Microsoft and RunSafe Security	
Gender Bias in Open Source <i>Research Project, Developer Liberation Front (DLF)</i>	Aug 2017 - Aug 2018 NCSU
• Analyzed <i>GitHub</i> data and tested several hypotheses derived from social studies to investigate effects of gender bias in open source software development	
• Mentored two <i>Research Experience for Undergraduate</i> (REU) students	
• Published one workshop and one conference paper	

RELEVANT COURSES - GRADUATE LEVEL

Software Engineering, Software Testing, Compiler Construction, Artificial Intelligence, Foundations of Data Science, Automated Learning and Data Analysis, User Experience.

AWARDS

- Best poster at HotSoS'19
- NCSU CoE Fellowship for 2017-18
- Winner at HUAWEI Seeds for the Future'16 from Bangladesh

REFERENCES

- Dr. Laurie Williams, Distinguished Professor, North Carolina State University; PhD advisor.
- Emerson Murphy-Hill, Staff Research Scientist, Google; Former PhD advisor.