

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

Aug 2017 - May 2022 (Expected)

Ph.D. in Computer Science - Specialization in Software Engineering

GPA 3.63/4.00

Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

May 2012 - Feb 2017

B.Sc. in Computer Science and Engineering

GPA 3.64/4.00

EXPERIENCE

Graduate Research Assistant

August 2017 - Present

DLF, RealSearch Lab

NCSU

Research Intern

May 2019 - Aug 2019

One Engineering Systems

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

Oct 2019

Nasif Imtiaz, Brendan Murphy, Laurie Williams

Berlin, Germany

- Proceedings of the 30th International Symposium on Software Reliability Engineering (*acceptance rate: 31%*)

Investigating the Effects of Gender Bias on GitHub

May 2019

Nasif Imtiaz, Justin Middleton, Joymallya Chakrabarty, Neil Robson, Gina Bai, Emerson Murphy-Hill

Montreal, Quebec

- In Proceedings of the 41st ACM/IEEE International Conference on Software Engineering (*acceptance rate: 21%*)

PROJECTS

Vulnerable Dependencies

Aug 2019 - Present

Research Project, RealSearch Lab

NCSU

- Studying vulnerable dependency detection tools to identify current gaps; [GitHub project](#)

Developer Adoption of Security Tools

Aug 2018 - Aug 2020

Research Project, RealSearch Lab

NCSU

- Analyzed the fix rate and fix complexity for Coverity alerts from historical data; [GitHub project](#)
- Studied *StackOverflow* 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

Aug 2017 - Aug 2018

Research Project, Developer Liberation Front (DLF)

NCSU

- Analyzed *GitHub* data and tested several hypotheses derived from social studies to investigate effects of gender bias in open source software development
- Mentored two *Research Experience for Undergraduate* (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