

# Nasif Imtiaz

PHD STUDENT · COMPUTER SCIENCE

✉ simtiaz@ncsu.edu | 🏠 nasifimtiazohi.github.io

## Education

### North Carolina State University

PH.D. IN COMPUTER SCIENCE

Raleigh, NC

Aug. 2017 - Present

### North Carolina State University

M.S. IN COMPUTER SCIENCE

Raleigh, NC

(Expected) Dec. 2019

### Bangladesh University of Engineering & Technology

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Dhaka, Bangladesh

Mar. 2017

## Experience

### North Carolina State University

GRADUATE RESEARCH ASSISTANT

Raleigh, NC

Aug. 2017 - Present

- Research topics span software engineering and security
- Conducted qualitative and quantitative empirical studies
- Collaborated with researchers from Microsoft and Rochester Institute of Technology

### Microsoft Research

RESEARCH INTERN

Redmond, WA

May 2019 - Aug 2019

- Researching why developers bypass security alerts on exposed credentials in source code
- Conducted interviews and surveys to understand developer behavior
- Analyzed usage data to identify factors that affect developers' decision to bypass security alerts

## Publications

### Conference Papers [Peer-reviewed]

#### How Do Developers Act on Static Analysis Alerts? An Empirical Study of Coverity Usage

ISSRE '19

IMTIAZ, N.; MURPHY, B.; WILLIAMS, L.

Berlin, Germany

- In Proceedings of the 30th International Symposium on Software Reliability Engineering
- Out of 134 submissions, 42 papers were accepted (an acceptance rate of 31%)

#### Synthesizing Program Execution Time Discrepancies in Julia Used for Scientific Software

ICSME '19

FARHANA, E.; IMTIAZ, N.; RAHMAN, A.

Cleveland, Ohio

- In Proceedings of the International Conference on Software Maintenance and Evolution

#### Investigating the Effects of Gender Bias on GitHub

ICSE '19

IMTIAZ, N.; MIDDLETON, J.; CHAKRABORTY, J.; ROBSON, N.; BAI, G.; AND MURPHY-HILL, E.

Montreal, Québec

- In Proceedings of the 41st ACM/IEEE International Conference on Software Engineering
- Out of 529 submissions, 109 papers were accepted (an acceptance rate of 21%)

#### Challenges with Responding to Static Analysis Tool Alerts

MSR '19 Mining Challenge

IMTIAZ, N.; RAHMAN, A.; FARHANA, E.; WILLIAMS, L.

Montreal, Québec

- In Proceedings of the International Conference on Mining Software Repositories (MSR) 2019
- Out of 27 submissions, 14 papers were accepted (an acceptance rate of 52%)

#### Snakes in Paradise?: Insecure Python-related Coding Practices in Stack Overflow

MSR '19 Mining Challenge

RAHMAN, A.; FARHANA, E.; IMTIAZ, N.

Montreal, Québec

- In Proceedings of the International Conference on Mining Software Repositories (MSR) 2019
- Out of 27 submissions, 14 papers were accepted (an acceptance rate of 52%)

## Workshop Papers + Posters [Peer-reviewed]

### Sentiment and Politeness Analysis Tools on Developer Discussions Are Unreliable, but so Are People.

*SEmotion '18*

IMTIAZ, N.; MIDDLETON, J.; GIROUARD, P.; AND MURPHY-HILL, E.

*Gothenburg, Sweden*

- In Proceedings of the Third International Workshop on Emotion Awareness in Software Engineering, 2018

### A Synopsis of Static Analysis Alerts On Open Source Software

*HotSoS '19 Poster*

IMTIAZ, N.; WILLIAMS, L.

*Nashville, Tennessee*

- In Proceedings of the Symposium and Bootcamp on the Science of Security (HotSoS) 2019  
**Best poster award**

## Honors & Awards

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2019 **Best Poster Award**, HotSoS

*Nashville, TN*

2017-18 **Recipient**, NCSU College of Engineering (COE) GRA

*Raleigh, NC*

2016 **Selected for Two-week Study Trip**, Huawei Seeds for the Future

*Beijing & Shenzhen,  
China*

## Services

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2020 **ICSE**, Sub-reviewer

2020 **EMSE**, Sub-reviewer

2019 **XP**, Sub-reviewer

2019 **ICST**, Sub-reviewer

2017 **VL/HCC**, Student Volunteer

*Raleigh, NC*

## Mentorship

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### Science of Software (SoS) Research Experience for Undergraduates

*Raleigh, NC*

MENTORED 2 UNDERGRAD STUDENTS ON THEIR SUMMER RESEARCH PROJECTS

*June 2018 - Aug. 2018*

- Neill Robson, North Carolina State University  
Project: Impact of "Code of Conduct" on Gender Diversity in Open Source  
Publication: Robson, Neill. "Diversity and decorum in open source communities."  
ESEC/FSE 2018 Student Research Competition.
- Tyler Percario, University of Lynchburg  
Project: Comparison of Code Quality between Male and Female Developers

## Technical Skills

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### Programming Languages

PYTHON, JAVA, SQL, C/C++, R, SHELL, SELENIUM, LATEX, HTML, AZURE KUSTO

### Research Methods

QUALITATIVE & QUANTITATIVE ANALYSIS, SURVEY, STATISTICAL MODELS, HYPOTHESIS TESTING

## School Projects

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### Task Tracker Bot

*GitHub repo*

CONNECTS SLACK AND TRELLO PLATFORM OF A TEAM FOR EFFICIENT TASK MANAGEMENT

*2017*

[presentation video](#)

### Prototxt2TensorFlow

*GitHub repo*

CONVERTS NEURAL NETWORKS DEFINED IN PROTOTXT FORMAT TO EQUIVALENT TENSORFLOW CODE IN PYTHON

*2018*