MOHAMMAD HAMMAS SAEED

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EDUCATION

Boston University — Expected May 2024
PhD in Computer Engineering — CGPA: 3.96/4.00
Focus: Cybersocial threats, Applied Machine Learning, Natural Language Processing and Social Computing

National University of Computer and Emerging Sciences — August 2014 - June 2018
Bachelor of Computer Science — CGPA: 3.74/4.00
3rd Position in Batch of 400 | Deans Honor List Award

WORK EXPERIENCE

Boston University — September 2019 - Present
Graduate Research Fellow — *Boston, MA, USA*

- Worked with Security Lab (SeclaBU) and collaborated with other major research labs (e.g., the iDRAMA Lab)
- Applied a data-driven approach to gather insights from data and use them to offer machine learning based solutions
- Authored several publications at top conferences (e.g., IEEE S&P, ICWSM and WebSci)

Boston University — September 2020 - December 2020
Graduate Teacher's Fellow — *Boston, MA, USA*

- Graduate Teacher's Fellow for Software Engineering Course (EC327)
- Conducted labs and worked with a class of 50 as they learned core concepts of Software Engineering in C/C++

Educative, Inc — February 2019 - August 2019
Software Engineer — *Bellevue, WA, USA (Remote)*

- Worked as a Full-Stack Developer (using Python, React and HTML) in a team of 20 individuals. Worked on back-end and front-end tasks, along with code reviews and writing test-cases
- Implemented features directly in the live product, i.e., Educative's website
- Generated and led new ideas for the product. Implemented the course recommendation system for the product

Lahore University of Management Sciences — February 2018 - February 2019
Research Associate — *Lahore, Pakistan*

- Responsible for mentoring new students, maintaining the website and leading research endeavors
- Conducted research related to internet measurement, auditing social media algorithms, image processing, web scraping and machine learning
- Worked with doctors at UC Davis to develop a machine learning system for detection of Tuberculosis using X-ray images and biomarkers

Mindstorm Studios — June 2017 - August 2017
Software Engineer Intern — *Lahore, Pakistan*

- Partnered with graphic designers to develop and deploy an online game using HTML5

PUBLICATIONS

M. H. Saeed, K. Papadamou, J. Blackburn, E. D. Cristofaro and G. Stringhini, *"TUBERAIDER: Attributing Coordinated Hate Attacks on YouTube Videos to their Source Communities,"* 18th International AAAI Conference on Web and Social Media (ICWSM 2024), 2024

M. H. Saeed, S. Ali, J. Blackburn, E. D. Cristofaro, S. Zannettou and G. Stringhini, *"TrollMagnifier: Detecting State-Sponsored Troll Accounts on Reddit,"* 2022 IEEE Symposium on Security and Privacy (SP), 2022

M. H. Saeed, J. Blackburn, G. Stringhini, *"There are N Impostors Among Us: Understanding the Effect of State-Sponsored Troll Accounts on Reddit Discussions,"* International Workshop on Cyber Social Threats (CySoc 2022), 2022

S. Ali, **M. H. Saeed**, E. Aldreabi, J. Blackburn, E. D. Cristofaro, S. Zannettou, and G. Stringhini, *"Understanding the Effect of Deplatforming on Social Networks,"* In Proceedings of the 13th ACM Web Science Conference 2021 (WebSci '21), 2021

R. Tahir, S. Durrani, F. Ahmed, **H. Saeed**, F. Zaffar and S. Ilyas, *"The Browsers Strike Back: Countering Cryptojacking and Parasitic Miners on the Web,"* IEEE INFOCOM 2019 - IEEE Conference on Computer Communications, 2019

R. Tahir, F. Ahmed, **H. Saeed**, S. Ali, F. Zaffar and C. Wilson, *"Bringing the Kid back into YouTube Kids: Detecting Inappropriate Content on Video Streaming Platforms,"* 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2019

RESEARCH TOOLS

Chatbot Harms: Developing an auditing system for Chatbots to identify the extent of online harm contributed by them

TUBERAIDER: Machine learning based system with over 75% accuracy in detecting and attributing hate attacks to YouTube videos

TROLLMAGNIFIER: Machine learning based pipeline to detect networks of troll accounts on Reddit with an accuracy of 97%

TECHNICAL SKILLS

Programming Skills: Python, C/C++, SQL, HTML, CSS, JavaScript, React

Libraries: Pandas, NumPy, Matplotlib, Scikit, BeautifulSoup, Selenium

Research Interests: Machine Learning, NLP, Socio-technological issues, Online harms and Cybersafety

LINKS

Google Scholar: https://scholar.google.com/citations?user=atAJTCkAAAAJhl=en

LinkedIn: www.linkedin.com/in/hammassaeed

Website: https://mhammas.github.io