

# Md Rayhanul Masud

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## EDUCATION

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**University of California Riverside (UCR)**

Sep 2021 - Present

PhD in Computer Science

**Bangladesh University of Engineering and Technology (BUET)**

Apr 2012 - Feb 2017

BSc in Computer Science and Engineering

## WORK EXPERIENCE

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**Graduate Student Researcher** University of California, Riverside

Jul 2022 – Present

- Current research on User Disambiguation across security forums and Open Source Software Platforms
- Developed frontend of SourceFinder which provides access to the largest database of malware GitHub repositories

[Python](#) [C++](#) [spaCy](#) [Pandas](#) [ReactJS](#)

**Application Developer** BGD e-GOV CIRT, Bangladesh

Jul 2020 – Aug 2021

- Contributed to the frontend of Boithok, a Video Conferencing Platform used by several ministries of Bangladesh
- Automated server deployment which reduced the downtime of the system
- Added new feature of downloading meeting attendance report which minimized the manual overhead

[Jitsi-Meet](#) [ReactJS](#) [Python](#) [Docker](#) [Bash](#)

**Software Engineer** Kona Software Lab Ltd, Bangladesh

Jul 2018 - Jul 2020

- Contributed to the development of transaction management pipeline of Kona Blockchain Platform
- Introduced new mechanism of template based smart contract deployment to prevent insecure transaction requests
- Developed a PoC of Real Estate Management System based on Kona Blockchain Platform
- Implemented lottery service interface Module of a Lottery Game Management System

[Ethereum](#) [Solidity](#) [Java](#) [Spring Boot](#)

## RESEARCH INTERESTS

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Cyber Security, Machine Learning, Data Mining, and Natural Language Processing

## PUBLICATIONS

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1. B. Treves, **M.R. Masud**, M. Faloutsos, “**URLytics: Profiling Forum Users from their Posted URLs**”, International Conference on Advances in Social Network Analysis and Mining, 2022 [PDF Link](#)  
- Developed a URL based user profiling mechanism to extract maximal information about the user
2. M. O. F. Rokon, R. Islam, **M.R. Masud**, M. Faloutsos, “**PIMan: A Comprehensive Approach for Establishing Plausible Influence among Software Repositories**”, International Conference on Advances in Social Network Analysis and Mining, 2022 [PDF Link](#)  
- Proposed a graph and embedding based approach to analyze the influence among the software repositories

## ACADEMIC PROJECTS

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**Diving deeper into Popularity of GitHub Repositories** | *Python, Pandas, Plotly, Matplotlib* [Link](#)

- Explored the popularity of GitHub repositories based on author and repository centric features
- Created a user-follower network of 7.5k GitHub users and used HITS algorithm to describe the influence on popularity

**User Profile Matching Analysis across Heterogeneous Online Platforms** | *Python, NLTK* [Link](#)

- Developed a model to match user profiles based on user generated contents
- Experimented over 1094 threads including 62655 comments from 4 different subreddits

## TECHNICAL SKILLS

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**Programming Languages** Python, Java, C++, JavaScript, Matlab

**Frameworks and Packages** Spring Boot, ReactJS, Scikit-learn, NLTK, PyTorch, TensorFlow

**Visualization** Plotly, Matplotlib, Seaborn, Tableau

**Database** MySQL, NoSQL, PostgreSQL

**Others** AWS, Docker, Hadoop, PySpark, HTML/CSS, JQuery, JSON, REST, Git