MIR MASOOD ALI

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EDUCATION

PhD in Computer Science   *January 2020 - Present*
The University of Illinois at Chicago
Advisor: Dr. Chris Kanich

Master of Computer Science   *January 2018 - August 2019*
Dalhousie University, Halifax, Canada
Thesis: Coercion Resistant Verifiable Web-based Elections in Linear Time
Supervisor: Dr. Srinivas Sampalli

Bachelor of Computer Science and Engineering   *July 2013 - June 2017*
Visvesvaraya Technological University, India

ACADEMIC EXPERIENCE

Head Teaching Assistant - Software Engineering   *January 2018 - August 2019*
Dalhousie University, Halifax, Canada
Terms: Winter 2018, Summer 2018, Winter 2019, Summer 2019
Instructor: Juliano Franz
Tools: Android Studio, Firestore (W'19 and S'19: Firebase), CI (Circle and Gitlab), Version Control (GitHub and GitLab), Testing (JUnit, Espresso, Robolectric)
Methodology: Agile, XP, TDD
A Head TA for this course is required to manage and run labs. This includes giving presentations and guiding students through the course project and assignments. TA's are responsible for managing and organizing the tasks of between 3 and 5 groups of 8 members each, besides serving as clients, planning iterations, and developing acceptance tests.

Head Teaching Assistant - Network Security   *January 2019 - April 2019*
Dalhousie University, Halifax, Canada
Terms: Winter 2019
Instructor: Dr. Srinivas Sampalli
Tools: Wireshark, dig, nslookup, Nessus, Maltego
Programming Languages: Java, Python, C, C++
A Head TA for this course is required to manage and run labs. This includes giving presentations and guiding students through the course project and assignments. Managing the learning management system (Brightspace), marking assignments, creating and distributing rubrics and sample solutions are included. A TA for this course also assists with proctoring examinations.

Teaching Assistant - Data Structures and Algorithms   *September 2018 December 2018*
Dalhousie University, Halifax, Canada
Terms: Fall 2018
Instructor: Dr. Srinivas Sampalli
Tools: Eclipse (for Java and Maven)
A TA for this course is required to manage and run labs. This includes giving presentations and guiding students through course assignments. There is additionally an evaluation of project presentations and invigilation besides marking.

PROJECTS

Department of National Defence, Canada *August 2019 - December 2019*
IDEaS
The project falls under the umbrella - "Understanding Cyber Intent". As a part of the project, we are bulding a Context-Aware and Machine Learning Framework that will be used to Predict, Detect and Differentiate Cyber-Attacks. The Framework will then be validated on a testbed with simulated attacks.

Cartoon Conrad *July 2019 - August 2019*
NSBI Voucher Grant
We built and presented a prototype of a persuasive game to manage juvenile diabetes. We conducted a survey of commercial CGM API's and presented game variable translations into a Habitica-style interface.

Spritely Technologies Inc. *December 2018 - February 2019*
NSBI Voucher Grant
We developed and integrated of SSO using social logins for the website and native Android/iOS applications. We also presented a report on the choices and methods for implementing of third-party payment options (Stripe).

TECHNICAL STRENGTHS

Programming Languages	Java, C/C++, Python, Assembly
Operating Systems	Linux (Fedora, Debian, and SUSE), MacOS
Networking	Wireshark, TCPdump
Web Technologies	HTML/CSS, JavaScript
Tools	Git, LaTeX, Libre Office
Databases	Postgres, Firebase, MySQL
Packages and Frameworks	Django, Node, Pip