Masroor Hussain Syed

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EDUCATION

UNIVERSITY OF CALGARY
BSc (Honours) in Computer Science
Faculty of Science
Cum. GPA: 3.73 / 4.0
Major GPA: 3.8 / 4.0

LINKS

Website:// **Masroor-Syed**
Github:// **Masroor-Syed**
LinkedIn:// **masroor-hussain-syed**

COURSEWORK

UNDERGRADUATE
Database Management Systems
Data Science
Software Engineering
Design and Analysis of Algorithms
Principles of Computer Security
Network Security
Web-based Systems
Computer Networks
Introduction to Distributed Systems
Operating Systems
Computing Machinery I/II
(Teaching Asst Winter 2020)

SKILLS

PROGRAMMING LANGUAGES
Python • Java • C\C++ • HTML\CSS • Javascript • Haskell • ARM Assembly • PHP • LaTeX

LIBRARIES & FRAMEWORKS
React.js • Node.js • Express.js • MongoDB • MySQL • Socket.io Pandas• NumPy• Matplotlib • Tensorflow Git • WebStorm • IntelliJ • Wireshark • Eclipse •Visual Studio • Vertica DB • Tableau • Open Refine

EXPERIENCE

TEACHING ASSISTANT FOR INTRODUCTION TO DISTRIBUTED SYSTEMS (CPSC 559) | University of Calgary
Jan 2020 - Present | Calgary, AB
Supporting students on their class projects. Corresponding daily with students via email and office hours. Responsible for grading student projects.

INSTRUCTOR | iCompute Program
Sept 2019 - Present | Calgary, AB
Teaching children how to solve problems, think creatively and express themselves through programming in Scratch and MIT App Inventor.

RESEARCH

STATIC ANALYSIS OF THIRD PARTY ANDROID SDKS | Undergraduate Honours Research Project
Sep 2019 – Apr 2020 | Calgary, AB
Developing an automated static analysis tool to help evaluate the usage of cryptography by third party Android SDKs using backward data-flow analysis.

NETWORKS RESEARCH GROUP | (PURE) Research Student
May 2019 – August 2019 | Calgary, AB
Worked under the supervision of **Dr. Carey Williamson** to create tools to detect periodic and quasi-periodic network traffic on the University of Calgary edge network.

PROJECTS

QUICKSPLASH | Multiplayer game built using MERN stack.
Created a multiplayer party game using the MERN (MongoDB, Express, React.js, Node.js) stack. Implemented the front-end and integrated front-end with back-end. Designed and connected the database with the app. Performed smoke test to make sure our build was deployable.

GRYD | Android app for eventgoers
Created an android app to help eventgoers navigate events and schedule their day at events. Developed a business plan for a software-based business venture.

RAID FILE SYSTEM STORAGE | Distributed System for File Storage
Helped in ideation and creation of a distributed RAID-style file storage system using Raspberry Pi's.Implemented integrity check for files in the system using cryptographic techniques. Created a network discovery protocol for different component of the system.

AWARDS

2019   P.U.R.E. (Program for Undergraduate Research Experience) Award
2019   University of Calgary International Undergraduate Award