

Muhammad (Moe) Ali

✉ muhammatalinajfi1@gmail.com 🏠 moyoonthego.github.io 📱 moyoonthego 📺 moe-ali

Education

University of Toronto

Sept. 2017 - Dec. 2021

H.B.Sc. CANDIDATE **DEAN'S LIST**

Toronto, ON

- Specialist: **Computer Science** (Software Engineering Stream)
- Minors: **Statistics, Creative Writing**
- **Current Relevant Courses:** Human-Computer Interaction, Programming on the Web

Skills & Abilities

Programming and Markup Languages

PYTHON, C#, JAVA, SQL, JAVASCRIPT, SHELL/BASH, HASKELL, RUBY, C, C++, R, VERILOG, HTML/XML, CSS, ARDUINO, PERL

Frameworks, Libraries and Concepts

REACT, JQUERY, ASP.NET, MVC, BOOTSTRAP, KENDO, FLASK, DOCKER, OOP, DATA STRUCTURES, SCRUM

Tools and Technologies

GCP, FIREBASE, BIG QUERY, ASANA, JIRA, UNITY, GIT, SVN, OFFICE365, SHAREPOINT, LATEX, AUTODESK MAYA, GOOGLE API'S

Experience

Royal Bank of Canada (RBC)

May 2020 - August 2020

SOFTWARE DEVELOPER INTERN

Toronto, ON

- Working with the Identity and Access Management (IAM) team to update system architecture with Java and Shell scripting, assess defects or enhancements and create project documentation for large scale enterprise software used by client companies globally.
- Successfully migrated global directory services over to a new infrastructure by identifying business rules and technical requirements.

FGF Brands

Sept. 2019 - April 2020

FULL-STACK WEB DEVELOPER INTERN

North York, ON

- Designed and developed an intranet portal with 28 more features and functionalities than its predecessor, using modern 'Material' design principals and Bootstrap. Managed data using MSSQL, Kendo and C# frameworks, with successful company-wide daily usage
- Created UI tools and dashboards for vendor management and sales data views. Maintained data access control as Sharepoint admin

The Mosaic Institute

Sept. 2019 - Dec. 2019

SOFTWARE ENGINEER INTERN

Ottawa, ON

- Created and implemented design for an application that meets the NPO mission of diversity and inclusion and automates training processes with full AODA compliance. Wrote review and submission React components as well as routing features and pages. Handled Asana SCRUM maintenance.
- Reduced administration time by 94% replacing pen and paper methods with automatic CSV generation through efficient design

University of Toronto

Sept. 2018 - June 2019

TEACHING ASSISTANT

Toronto, ON

- **CSCA08 (Intro to Computer Science I) - Fall 2018 and Winter 2019**
- Created tools, problems and solutions in Python to instruct over 3k students, as well as grading exams/papers
- Held office/lab hours and substitute lectures, providing students with aid for fundamental programming concepts

Projects

Arusi

April 2019 - Present

PROJECT MANAGER (GROUP STARTUP/INITIATIVE)

- **Java and Android SDK based Muslim Connections App**
- Wrote entire back-end (Java) and front-end (XML) for beta project in Android Studio
- Used JSON files, Google API's (Sign-In, Location, etc.). Firebase realtime-database, storage & user authentication

Words with Strangers

Jan. 2020 - Present

PROJECT MANAGER AND WEB DEVELOPER (HACKATHON, GROUP OF 3)

- **Node.js and Bootstrap based web app P2P game**
- Created project design/schema, wrote front end using Node.js and jQuery rigged custom components & functions using TODAQ API's
- Deployed application online with Heroku.

ROLL-E

Feb. 2020

PROJECT MANAGER AND HARDWARE ENGINEER (HACKATHON, GROUP OF 4)

- **Linux, Raspberry Pi, Arduino based recycling management device**
- Created a hardware recycling sorter that uses neural network recognition to eliminate current outdated waste sorting processes.
- Developed schema and design, wrote hardware sketches and rigged Arduino boards, Pi computer, stepper motors, etc. to system

Betwixt

May 2019

SOFTWARE ENGINEER

- **Unity Based Android Casual Game (Personal Project)**
- 2D independent Android game, utilizing C scripting, Unity graphics, JSON save files, linked lists and other abstract data types.
- Developed game mechanism, graphics and code, then deployed to Play Store within a week (rapid development cycle).

Volunteer Experience

Hack the Valley

Oct. 2017 - Present

CO-CHAIR (HEAD ORGANIZER)

Toronto, ON

- Logistical handle of Canada's second largest hackathon (2019). Engaging with multiple organizations, companies and sponsors. Lectured at opening ceremony, awards ceremony, etc.- managing numerous event activities and engaging with students as a mentor.
- Helped develop Hacker Landing Page and Dashboard for event, using custom components with React JS and Styled Components.
- Promoted from Sponsorship Coordinator -> Event Organizer -> Executive Organizer -> Lead Organizer and Co-Chair (2021).

Milton Community Resource Centre

May 2015 - Sept. 2017

RESOURCE VOLUNTEER

Milton, ON

- Interactive, planning based experience in an Early Childhood Education teaching environment with The Halton Resource Connection.
- "Volunteer of The Year" - recipient of the Star Award (2017).

Honors & Awards

RBC 2020 Innovation Challenge

May 2020

"RBC VIRTUAL BRANCH" PROJECT

RBC Royal Bank

- **2nd Place Best Overall Application**
- Framework and HiFi prototype for a virtual banking application using AR. Pitched concept to RBC Head of T&O and Director of IAM.

QHacks 2020

Feb. 2020

ROLL-E

Queen's University

- **TD Best Green Hack Award**
- Created an autonomous recycling waste manager using machine learning. Demoed for TD engineers, recruiters, and director of T&O.
- Rigged physical machine and model, created hardware description using Arduino.

UofTHacks 2020

Jan. 2020

WORDS WITH STRANGERS

University of Toronto

- **Best App on TODA Award**
- Web app multiplayer word-choice game using sockets, Firebase, and TODA services.

BostonHacks 2019

Nov. 2019

MOODBLASTER PROJECT

Boston University

- **Best Computational Art Award**
- Image recognition and neural network services for an app that selects music based on recognized facial moods, for emotional therapy.