

Muhammad (Moe) Ali

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Education

University of Toronto

Sept. 2017 - Apr. 2022

H.B.Sc. DEAN'S LIST | HONOR ROLL

Toronto, ON

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

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, BOOTSTRAP, KENDO, FLASK, MONGOOSE, EXPRESS, MVC, OOP, DATA STRUCTURES, SCRUM

Tools and Technologies

GCP, FIREBASE, MONGODB, BIG QUERY, ASANA, JIRA, UNITY, GIT, SVN, OFFICE365, SHAREPOINT, LATEX, AUTODESK MAYA

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 to a new infrastructure by identifying business and technical rules, without user affect.

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/dashboards for vendor management and sales data, used by large-scale vendors like Walmart, Starbucks and Aldis.
- As an intern, maintained data control as SharePoint admin, giving access to company resources and approving resource deployment.

The Mosaic Institute

Sept. 2019 - Dec. 2019

SOFTWARE ENGINEER INTERN

Ottawa, ON

- Created/implemented design for an application that meets the NPO mission of diversity & inclusion, automating training processes with AODA compliance. Wrote numerous React components, 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

Relevant Projects

ModernModular.js

Feb. 2020

FULL-STACK SOFTWARE ENGINEERING (PERSONAL PROJECT)

- **DOM Element Widgetization JS Library**
- Created a JS Library that enables developers to widgetize content in a view and customize them, animate them or get information on them. Implemented library in vanilla JS (no framework dependencies), and created site with stock HTML, CSS, JS.
- Deployed to Heroku and handled routing and navigation configuration using Express.js

SkillTraders

May 2019

FULL-STACK SOFTWARE ENGINEERING (PARTNER PROJECT)

- **React.js Based Online Networking Site**
- Handled front-end. Created all React components, such as Reviews, Ratings, Sidebar.
- Handled user authorization and sessions, as well as login and registration. Worked on backend with MongoDB using Mongoose.js

Arusi

April 2019 - Present

PROJECT MANAGER AND DEVELOPER (PERSONAL 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.

Volunteer Experience

Hack the Valley

Oct. 2017 - Present

Co-CHAIR & CXO (CHIEF EXPERIENCE OFFICER)

Toronto, ON

- Promoted from Sponsorship Coordinator -> Web Developer -> Event Organizer -> Executive Organizer -> Co-Chair and CXO (2021). Helped oversee Hack the Valley reach 7.5k applicants and become Canada's second largest hackathon. As CXO, lead Hack the Valley to be recognized as a Top 50 Hackathon worldwide by Pinnacle (Olympics of Hackathons).
- Engaging with multiple organizations and sponsors as well as with students as a mentor. Lectured at organization events and managed activities. Helped develop Hacker Landing Page and Dashboard for event page.

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.