

# Joshua Allum

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github jtaaa

in joshua-allum

## - SUMMARY OF QUALIFICATIONS -

### Leadership Skills

Developed through 3 years as troop leader of troop of 40+ scouts, planning activities and coordinating events.

### Software Development Skills

More than two years of experience using JavaScript, Node.js, HTML, Angular, React, Git and  $\LaTeX$  in production projects both paid and unpaid for non-profit.

### Communication Skills

Expert communicator with multicultural background of diverse perspectives.

### Problem Solving

Natural problem solver with initiative to take ownership of problems.

## - ACHIEVEMENTS -

2013 | 10<sup>th</sup> overall in the Caribbean CAPE, Computer Science Unit 1.

2013 | Chief Scout Award

Awarded by the President of Trinidad and Tobago.

2015 | National Scholarship Winner

Awarded based on exceptional performance in CAPE.

2014 | World Scout Jamboree

Represented Trinidad & Tobago internationally at the 23<sup>rd</sup> WSJ in Japan.

2012-16 | Music Festival Champions

Winner with the Holistic Music School Ensemble of the biannual T&T Music Festival three times consecutively.

## - CLUBS -

2017→ | ACS

Web Admin and executive member of the UW Association of Caribbean Students.

2016→ | Caribbean Tech Forum

Contributing member of small community of tech enthusiasts.

## - EDUCATION -

Honours Computer Science Co-op,  
University of Waterloo, expected Winter 2021

Cumulative Average: 86.44%

Faculty/Major Average: 91.67%

## - WORK EXPERIENCE -

Massy Technologies InfoCom | Software/Data Science, May 2018 →

- Identifying trends and insights in customer spending to be integrated into further expansion of Massy Stores using techniques such as Market Basket Analysis and Cluster Analysis.
- Producing statistics and tangible metrics of branch performance based on large datasets of transactions.

UWBlueprint | Project Developer, January 2018 →

- Collaborating with team of developers to produce software solutions for Non-Profit Organizations.
- Created mobile app for Ontario Secondary School DanceFest for judges to record real-time audio adjudications during dances and score participants in one coherent offline capable interface.

Teleios Systems Limited | Software Dev Intern, June 2017 - Aug 2017

- Contributed to full solution for the government of Bahamas' new NHI program by developing a .NET core web service to validate and sync user info between Bahamian databases with transient-fault-handling via Polly.
- Prepared and hosted the company's 10<sup>th</sup> Power Hour Live session, a live discussion/showcasing of current, exciting technologies.
- Created and deployed the Teleios Code Jam bot using MS Bot Framework and Luis.ai. Accessible by messaging TCJ Facebook page or via Cortana.

## - PROJECTS -

ArgonJS-Playground | Argon.js, A-Frame, Socket.io, LUIS.ai

- Developed AR scene using Argon.js with NodeJS backend server that accepts API requests to modify the virtual scene.
- Used socket.io to emit scene modifications to all connected users so objects of the world are modified simultaneously for all users.
- Demoed app using bot created with MS Bot Framework and LUIS.ai to send appropriate API requests using natural language.

UW Assoc. of Caribbean Students Website | Angular, Firebase

- Built from scratch and maintain the clubs current website.
- Includes admin features and varying user role access.
- Integrated with Firebase to manage the database of users and allow admins to interact conveniently with the data.

STAT 230 Course Notes |  $\LaTeX$

- Creating fully-fledged book including proofs, theorems, graphs and original examples, for STAT 230 at UW in  $\LaTeX$ .

## - ACTIVITIES -

2009→ | Holistic Music School Ensemble

Semi-professional lead flautist in mainly jazz but also folk and locally oriented band.

2009-15 | First Trinidad Sea Scouts

Troop Leader tasked with planning and organizing events.

Over 40 hours of community work includes beach clean ups, charity events and life guarding services.