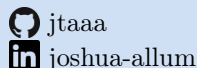


# Joshua Allum

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## - EDUCATION -

### University of Waterloo

Honours Computer Science, Co-op

*Dean's Honours List: F-2016, W-2017*

**Cumulative Average:** 86.44%

**Faculty/Major Average:** 91.67%

### St. Mary's College

Graduated in May 2015

Achieved 10 grade 1's in CAPE.

## - SKILLS -

### Proficient in:

C, C++, Python, JavaScript, Node.js, HTML, Angular, React, Git,  $\LaTeX$ , Racket

### Familiar with:

C#, .NET core, ASP.NET, MS Bot Framework, LUIS.ai, Android, Java, Firebase, Express.js, CSS, Redux

### Some experience:

R, SQL, MS OData Stack

## - 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.

2016→ | UW Stats, CS, Math Club

First year member of university clubs.

## - WORK EXPERIENCE -

UWBluepint | Project Developer, January 2018 →

- Collaborating with a team of developers to produce a mobile app for the Ontario Secondary School DanceFest to allow judges to seamlessly 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 a full solution for the government of the 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. It can be accessed by messaging the TCJ Facebook page or via Cortana.

Western Union | Front Line Agent, Sept 2015 - May 2016

- Handled money transactions of hundreds of clients per week.
- Created excel spreadsheets to record daily transactions and produce predicted balance figures.

## - PROJECTS -

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

- Developed an AR scene using Argon.js with a NodeJS backend server that accepts API requests to modify the virtual scene.
- Used socket.io to emit scene modifications to all connected users so the objects of the world are modified simultaneously for all users.
- Demoed the app using a bot created with the 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 a 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 a 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.