# Joshua Allum

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in joshua-allum

## - Summary of Qualifications -

### Leadership Skills

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

Software Development Skills More than two years of experience using JavaScript, Node.js, Python, Angular, React, Git and MEX 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 drive to take ownership of problems.

## - Achievements -

2014 | 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 T&T internationally at the 23<sup>rd</sup> WSJ in Japan.

2012-16 | Music Festival Champions
Winner with the Holistic Music
School Ensemble of the biennial
T&T Music Festival consecutively.
Performed at Tobago Jazz Festival.

## - Clubs -

#### $2017 \rightarrow | ACS$

Web developer and exec member of 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 →

- Created InvioBox, a convenient DropBox-like service that will be available in all InvioCloud packages, Massy's Cloud Computing offering.
- Used data mining techniques such as Market Basket Analysis and Cluster Analysis to integrate into Massy Stores' expansion into online sales by predicting customers' cart and recommending items.
- Produced statistics and tangible metrics of inter-branch performance based on large datasets of transactions using Pandas, Plotly, Watson.

UWBluepint | Project Developer, January 2018  $\rightarrow$ 

- Collaborating to produce software solutions for NPOs.
- Created and shipped mobile app for Ontario Secondary School Dance-Fest 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 govt 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/showcase of current, exciting technologies.
- Created Teleios Code Jam bot using MS Bot Framework and Luis.ai. Deployed to TCJ Facebook page and Cortana.

## - Projects -

ArgonJS-Playground | Argon.js, NodeJS, 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.

Incident Reporter | Expo, React-Native, NodeJS, Firebase, GCP

- Built for the Chaguanas Borough Corporation as part of initiative for Chaguanas to become Trinidad's first Smart City.
- Integrated user Camera and Location to facilitate real-time reporting of incidents served to Firebase to be immediately visible to the CBC.
- Implemented upvoting and incident status systems to facilitate transparent two-way communication between citizens and authority.

## STAT 230 Course Notes | PTEX

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

## - ACTIVITIES -

 $2009 \rightarrow |$  Holistic Music School Ensemble

Semi-professional lead flautist in jazz, 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.