

Joshua Allum

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- 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 \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 drive to take ownership of problems.

- ACHIEVEMENTS -

2018 | Watson Build Qualifier

Qualified for Build Round of [Watson Build 2018](#) with possibility to showcase at [PartnerWorld 2019](#).

2014 | 10th 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](#).

2015 | World Scout Jamboree

Represented T&T internationally at the [23rd WSJ](#) in Japan.

2012-16 | Music Festival Champions

Winner with HMSE of biennial [T&T Music Festival](#) consecutively.

- CLUBS -

2017→ | ACS

Web dev and exec member of [Assoc. 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: 86.62%

Faculty Average: 90.00%

- 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.

UWBlueprint | Project Developer, January 2018 →

- 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 [10th 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 | \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 jazz, folk and locally oriented band. Toured internationally and performed at prestigious [Tobago Jazz Festival](#).

2009-15 | First Trinidad Sea Scouts

Taught recruits oarsmanship, kayaking, sailing, pioneering and scouting. Experience includes over 40 hours of community work including beach clean ups, charity events and life guarding services.