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 -

2014 | 10th overall in the Caribbean
CAPE, Computer Science Unit 1.

2018 | Watson Build Qualifier
Qualified for Build Round of Watson Build 2018 with possibility to showcase at PartnerWorld 2019.

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 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.