Joshua Allum

jallum.xyz

② <u>joshuatallum</u>

647-781-4107ioshua-allum

⊙ j<u>taaa</u>

Work Experience

Cognite AS Oslo, Norway. Sep-Dec 2019
FRONT-END ENGINEER

- Worked daily on front-end of <u>Asset Data Insight</u> application, writing high performance, re-useable code with monthly sprints and rollouts.
- Implemented **design curve overlays on scatterplots** with option to upload CSV or manually enter X-Y pairs, solving company-wide <u>pump</u> <u>performance curve</u> use case.
- Significantly improved **development experience**, **linting** and **testing utilities** of custom graphing library <u>Griff</u>.

IBM Canada Toronto Labs Toronto, Canada. Jan-May 2019 CLOUD PLATFORM PROJECT DEVELOPER

- Unified and secured user sign-in experience across full range of internal microservices by implementing an OAuth2 Central Authentication System (CAS).
- Optimized page load time and caching strategy for Client Management Tool, used by all Account Managers.
- Drove task management/recording tool, both backend API and frontend UI, from conception to production incorporating feedback from TAMs, and integrating with existing tools, in an agile team environment.

Massy Technologies InfoCom POS, Trinidad. May-Aug 2018 SOFTWARE DEVELOPER/DATA SCIENCE ASSISTANT

- Created InvioBox, a convenient DropBox-like service that will be available in InvioCloud packages, Massy's Cloud Computing offering.
- Constructed data pipelines using Market Basket Analysis and Cluster Analysis. Integrated pipeline with Massy Stores' expansion into online sales to predict customers' carts and recommend items.
- Produced statistics and tangible metrics of inter-branch performance based on large datasets (several GB) of transactions using Pandas, Plotly, and Watson.

Education

Honours Computer Science Co-op

University of Waterloo, expected Winter 2021

Cumulative Average:85.63%Faculty Average:87.27%

Achievements

Watson Build Finalist	2018
National Open Scholarship	2015
Chief Scout Award	2015
10th Overall CAPE CS	2014
Music Festival Band Winner	2012-16

Skillset

3+ years experience & shipped product

JavaScript (ES6+), TypeScript, React, Storybook, Styled-Components, testing-library, testcafe, React-Native, Angular, HTML5, CSS3, Git, NodeJS, MongoDB, Firebase, Docker, LaTeX

Some experience & comfortable with

C++, C#, .NET, webpack, SQL, PostgreSQL, GCP, AWS, Nginx, R, Python, Flask, Plotly, Matplotlib, Numpy, Pandas, OpenCV, scikit-image

Clubs

Assoc. of Caribbean Students 2017-20

Web admin for 4 years. Created <u>club website</u>. **UW Blueprint**2018-20

Collaborated with other students to develop software solutions for NPOs.

Projects

T&T Mobile Delivery React, TypeScript, Styled-Components, Storybook, Firebase 2019

• Developed and launched solution to allow users to buy and trade iPhones safely, quickly and easily in T&T.

Best Friends Animal Society App Flask, OpenCV, Tensorflow, scikit-image, Docker, React-Native 2018

Developed dog image quality ensurance app since image quality heavily influences adoption rate at <u>BFAS</u>.

• Detected and classified dogs and calculated their bounding boxes to ensure they appear in centre of frame.

• Utilized scikit-image and OpenCV to detect and filter dim and blurry images respectively.

Cadiovascular Disease Risk Calculator NodeJS, React, JavaScript

2018

• Collaborated with Prof. Amalia Hosein of <u>University of Trinidad and Tobago</u> as part of her doctorate thesis.

- Implemented Prof. Hosein's risk calculation algorithm in NodeJS API and developed POC React web app.
- Backend API is in use by a mobile app developed by UTT undergraduate students as a term project.

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STAT 230 Course Notes LaTeX

2017

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