NATHAN SHUMMOOGUM

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EMPLOYMENT

Data Science Intern   **Pratt and Whitney Canada**   **Fall 2016**

- Automated the creation of forecasting charts, used in weekly meetings, to clearly depict inefficiencies in the workforce.
- Created an application to predict when engine repairs would be completed and shipped based on previous data.
- Created an application to compare the company workforce to predicted upcoming workload for several global plants. The application was used to justify hiring requests at a company offsite.
- Created a slotting app, where users could keep track of engines up for repair.

Software Engineer, Intern   **Nuance Communications**   **Fall 2017**

- Automated the generation of test case scripts from excel worksheets.
- Creating and automating test cases
- Automation of test commands onto physical head unit.

Full Stack Software Developer, Intern   **PERFORM Centre**   **Fall 2018 – Summer 2019**

- Creating an open-source web app to process and analyze MRS data from MRI machines for Alzheimer's research
- Consulting with physicists to develop algorithm to quantify metabolite concentrations in the brain.
- Replacing existing software priced at $15,000 per license.

EDUCATION

Concordia University, Montreal, QC
Bachelor of Engineering – Computer Engineering (2015- 2019)

- GPA: 3.2
- Anticipated date of graduation: August 2019

PROJECTS

Yelp Recommender System *(python, spark, AWS, Individual)*

- A restaurant recommendation engine hosted on AWS, using the Yelp dataset.
- Uses an alternating least squares algorithm to predict ratings for restaurants given a user's taste.

I Want Out *(MongoDB, Express, React, Redux, Node, Semantic-UI, Individual)*

- A react web app that helps users plan a move to a brand-new city.
- Using the teleport API, users can quickly search for cities by name and visualize major details.

Gym Pass App *(Android, Java, C++, IOT, NodeMCU, Team)*

- A gym membership android app accompanied with an IOT door with electromagnetic locks.
- Includes QR code pass, scanner for admins, crowdedness tracking and notifications

SKILLS

Java ● C++ ● Python ● React ● Node ● Android ● MATLAB ● C ● Arduino ● ESP8266 ● Raspberry Pi