

# NATHAN SHUMMOOGUM

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<https://nathanshumm.com/>

## EMPLOYMENT

### Full Stack Software Developer

#### PERFORM Centre

Summer 2019

- Creating an open-source web platform to analyze MRS data from MRI machines for Alzheimer's research
- Developing front-end and back-end of platform for analysis and quantization metabolite concentrations.
- The website will replace an equivalent existing software priced at \$15,000 per license.
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### 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 Testing, 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.

## 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*)

- 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*)

- 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.

### Choices (*Android, Java*)

- An android app that helps users select a restaurant, bar or activity nearby.
- The app uses Google Places API to locate nearby establishments and retrieves their details.
- Users can filter by different categories and use a swipe feature to like or dislike a recommendation.

## SKILLS

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