

# Bryan Melanson

<http://bnuh.github.io>  
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## EDUCATION

### MEMORIAL UNIVERSITY

BS IN COMPUTER ENGINEERING  
Expected May 2020 | St. John's, NL

### JOHNS HOPKINS UNIVERSITY

SPEC. IN DATA SCIENCE  
May 2018 | Online

## LINKS

Github:// [bnuh](#)  
LinkedIn:// [bryanmelanson](#)  
Quora:// [Bryan-Melanson](#)

## COURSEWORK

### UNDERGRADUATE

Algorithm Analysis  
Embedded Systems  
Software Design  
Data Structures  
Digital Signal Processing  
Unix Tools and Scripting

## SKILLS

### PROGRAMMING

Over 5000 lines:

Java • Shell • JavaScript • Matlab  
Fortran • Python • R • HTML

Over 1000 lines:

C • C++ • CSS • PHP •  $\text{\LaTeX}$

Familiar:

Vagrant • iOS • Android • MySQL •  
MongoDB • CMake • React • NodeJS

## INTERESTS

Powerlifting  
Sound Design  
College Football  
Filling empty space

## EXPERIENCE

### SIA | Co-FOUNDER FULL STACK DEVELOPER

June 2018 – Present | St. John's, NL

- Developing customized real-time location system (RTLS) software solutions for health care organizations to track assets, increase visibility, identify risks and solve work flow problems in clinical environments.
- Designing MVP including web architecture and hardware solutions.
- Early stage technology start up in discussion with NGOs and healthcare providers aiming to launch pilot project in Winter 2019.

### MUN SAILBOT | LEAD PROGRAMMER

May 2016 – Sep 2018 | St. John's, NL

- Worked on the design and programming of an automated 2.2 meter sailboat to compete in the annual **International Robotic Sailing Regatta**.
- Created algorithms for wind based sail navigation and GPS navigation.
- Competitions include remote control racing, machine vision, automated navigation, collision avoidance and load delivery.
- Developed hardware solutions for sensor, motor, and controller selection. Used PWM functionally to perform current control open loop protocol.

### LUDIA INC. | PRODUCTION COORDINATOR

Jun 2010 – Aug 2011 | Montreal, QC

- Managed in-house and outsourced audiovisual content production branches for **The Price Is Right** games for PS3, Wii, and Facebook.
- **The Price Is Right - Facebook** received 1,000,000 unique users its 1st week.

## WORK TERMS

### THE MUN MAKERSPACE | MAKERSPACE COORDINATOR

May 2018 – Sept 2018 | St. John's, NL

Worked with **The MUN Commons** to integrate technology into university curriculum and provide Memorial University students with programming, fabrication and design instruction. Provided one-on-one project consultation to students and staff as well as curated workshops.

### NOKIA INC. | TIER 2 SUPPORT ENGINEER

Sept 2016 – Jan 2017 | Ottawa, ON

Worked with Nokia **5620 SAM** clients debugging complex product installations on CentOS/Solaris/RHEL systems as well as resolving large-scale network management issues using Open Stack and VMWare.

### NALCOR ENERGY | SOFTWARE DEVELOPER

Dec 2015 – May 2016 | St. John's, NL

Lead the development of interactive heat map Geographic Image System (GIS) application for analyzing and visualizing real time prices of the New York state energy market using MATLAB, and SQL. Expanded project scope to include scripted mapping of all major Canadian energy markets using R.

## AWARDS

2018 SIA Chosen for Propel ICT Incite Accelerator Program