

PATRICK SIMPSON MAHON

Back End - Data Science

8-12 Month Internship

SKILLS

FLUENT IN:

Java

Python

C,C++

UNIX

Matlab

R

BUGS/JAGS

Julia

L^AT_EX

Bayesian Analysis

MCMC Modelling

Principal Component Analysis

Numerical Integration

Forward Error Analysis

Backward Error Analysis

Graph Optimization

EXPERIENCE WITH:

HTML

PHP

Apache

MySQL

GSuite APIs

CONTACT



github.com/pmahon3



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PROFILE

I am a back end developer with a strong skill set covering scientific computation, numerical methods, statistical learning, as well as mathematical and computational logic. I have exceptional communication skills, a foundational understanding of the front end perspective, and I am looking to challenge myself as an important part of a thoughtful and driven team.

EXPERIENCE

NSERC Undergraduate Student Research Award

Western University | May 2019 - Present

- Collaborated with researchers to program statistical models of wildlife radio signal data using a Bayesian approach

Field Technician

Gandy Digital Ltd. | September 2016 - May 2017

- Installed, serviced, and repaired industrial inkjet printers with a thorough knowledge of their integrated mechanical, electrical, pneumatic, and computer systems

Invasive Species Field Technician

Georgian Bay

Forever | May 2018 - August 2018

- Mapped stands of invasive species for management action
- Organized educational and volunteer groups
- Identified potential invasive hybrids for collection and sequencing analysis

PROJECTS

SortChoice | Python | LAMP Stack | GSheets API

- A web based class scheduling optimization program maximizing participant utility given limited class sizes and restrictions.
- Hosted for a summer camp
- HTTPS, SHA-256 secure

NBody | C++

- A general purpose N-body simulation implemented using Euler's method.

ClassSearch | Python | HTML | GMail API

- A web scraping utility that notifies users when a spot in a university class is open

EDUCATION

Western University | Dean's List | 2017 - Present
Hons. BSc Applied Math and Computer Science

- Overall: 84.5
- Math: 84.7
- Computer Science: 90.3

University of Guelph | Dean's List | 2010-2014
Hons. BA Philosophy

- Overall: 87.2