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lam.io
derek@lam.io

HELLO, I'M

(416)-618-7220
/acrylic-origami
/3925507/concat

DEREK LAM.

PRIOR WORK EXPERIENCE

Hello, neighbour.

UX Engineer Intern
BlueDot Inc.
May–Sep. 2017

`MySQL` `HTML`
`CSS` `REACTJS`
`PYTHON`

`Ps` `Ai`

Icon & Print Designer + Database Programmer
RocScience
May–Sep. 2016

`PHP` `SQL SERVER`
`C#` `VBA` `PYTHON`

`Ps` `Ai` `Id`

Part-time Web Developer
Usability Matters
Sep. 2015–Dec. 2016

`PHP` `MySQL` `HTML`
`CSS` `JS` `SH`

`Ps` `Ai`

"While working with Derek, I was extremely impressed with his professionalism, strong work ethic, and positive attitude. Derek really understands why accessibility is important, and was able to quickly incorporate accessibility into his workflow."

Louise McCulloch
Content Marketing Specialist

Data Analyst Intern
City of Toronto
Open Data
July-August 2014

`PHP` `MySQL` `HTML`
`CSS` `JS` `∞` `SH`

`Ps` `Ai`

"From the get-go, Derek impressed with his understanding of applications and data analytics but also his creative and imaginative disposition. Derek can and does function well in both a non-technical and technical milieu."

Keith McDonald
Open Data Lead

VOLUNTEER WORK

Electrode Localization GUI Programmer
Lab of Prof. Roman Genov
Jan 2017 - May 2017

`MATLAB`

Web Programming Instructor
Project Include
July 2016 - August 2016

`HTML` `CSS` `JS`

CURRENT WORK

Vacation Student – Engineering and Technology Dept.
CSIRO – O&A Hobart
May–Aug. 2018

CSIRO
https://www.pmel.noaa.gov/co2/file/SOFS+Buoy

At the Oceans and Atmosphere department (O&A) work is ongoing to improve the understanding of and robustness of deep-water moorings with instrumented buoys floating on the surface. The unforgiving Southern Ocean has ripped moorings clean in half – the response which we are assisting involves sea surface and motion data processing to understand stresses.

ACADEMICS

CURRENT SCHOOL
University of Toronto
St. George Campus

CUMULATIVE GPA
3.72
As of May 2018

PROGRAM
ECE @Engineering Science
3rd year

PLANNED GRAD YR.
2019
1T9 w/o PEY

PERSONAL PROJECTS

InteractiveX for Hack and PHP
[github]/HHReactor
[github]/AmpReactor
Actively Developed
December 2016–Present

`HACK/PHP`

HHReactor and AmpReactor are implementations of the obscure but powerful InteractiveX framework by Microsoft in Hacklang and PHP respectively. HHReactor is written in strict Hack, without external libraries.

Sensorless control of linear motors
lam.io/projects
Hiatus
December 2014–September 2015

`∞`

I studied the speed and positioning limits of a bare-bones linear motor design of mine with the aspiration to use them in 3D printers. I condensed my results into an Extended Essay in Physics which won the school-wide prize for the category.

RECENT AWARDS

2017
NSERC – Experience Award

2016
UᴏғT – Dean's Scholar of Excellence Award
NSERC – Experience Award

2015
UᴏғT – President's Scholars of Excellence Entrance Award
UCC – Head Boy (Highest final IB total)
UCC – Governor General's Medal
UCC – Grant Medal
UCC – IB HL Physics Prize
UCC – IB SL Economics Prize
UCC – Class of '64 Award