

# Dakota St. Laurent

<http://saintdako.com>  
hello@saintdako.com | (519)-502-9585

## EDUCATION

### UNIVERSITY OF WATERLOO

BACHELOR OF MATHEMATICS

Expected August 2015 | Waterloo, ON

Cumulative Average: 80%

### CENTRAL HIGH SCHOOL

Grad. June 2011 | Burlington, ON

## LINKS

Github:// [SaintDako](#)

LinkedIn:// [dakotastlaurent](#)

Twitter:// [@StDako](#)

## COURSEWORK

### UNDERGRADUATE

Computational Linear Algebra

Data Types & Structures

Computational Mathematics

Computational Physics I & II

### COURSERA

The Data Scientist's Toolbox

R Programming

Getting and Cleaning Data

Statistical Inference

## SKILLS

### PROGRAMMING

Languages

JavaScript • Python • MATLAB

Java (Android) • R • Fortran

C • C++ • Elixir

Tools

Sublime Text • Git • Android Studio

Markup

HTML (Jade, Handlebars) •  $\text{\LaTeX}$

CSS (Bootstrap, SASS)

Other

jQuery • NodeJS • MongoDB

AngularJS • SQL • OpenCL

## EXPERIENCE

### UNIVERSITY OF WATERLOO

COMPUTATIONAL FINANCE RESEARCHER

May 2015 – Aug 2015 | Waterloo, ON

- Developing GPU-based implementations of numerical methods used for financial models with OpenCL in C and C++

COMPUTATIONAL OCEANOGRAPHER

Jan 2015 – Apr 2015 | Waterloo, ON

- Parallelized numerical methods to solve the Navier-Stokes equations and attempted to scale them onto large multicore systems with MPI

COMPUTATIONAL ASTROPHYSICIST

May 2013 – Aug 2013 | Waterloo, ON

- Analyzed the distribution of noise and discovered significant substructure within galaxy clusters using Python's numerical libraries
- Quickly adapted to the Ubuntu operating system and worked extensively with astronomy software

## PROJECTS

### NUMBERS.JS

- The most popular numerical library for JavaScript and NodeJS
- Currently the lead developer and responsible for maintaining documentation

### NODE-EMAIL-VERIFICATION

- Easily send verifications to users after signup using Node and MongoDB

### ROOMSURFER

- A web application that allows University of Waterloo students to find rooms on campus to study in

## AWARDS

2015 NSERC Undergraduate Student Research Award (x2)

2013 NSERC Undergraduate Student Research Award

2011 University of Waterloo President's Scholarship

2011 Queen Elizabeth II Aiming for the Top Scholarship

## VOLUNTEER WORK

2015 UofTHacks, HackWestern Namecheap Campus Ambassador

2015 MHacks V, UofTHacks Regional Organizer

2014 Hack the North General Volunteer

2014 UW Game Dev Club Vice President

2014 UW Physics Club Information Officer