

→ Computer Science
→ Applied Mathematics
→ Computational Mathematics

Liam Palmer
University of Waterloo Senior

Github/LinkedIn: liampalmer43
liampalmer43@gmail.com
1-519-984-9526



SKILLS

C++, Java, Python, JavaScript, TypeScript, HTML, CSS, ReactJS, BackboneJS, Git, SVN,
Hadoop MapReduce, Apache Storm, Flux Pattern, Android, DynamoDB

Differential Equations, Complex/Real Analysis, Numerical Computation

WORK

EXPERIENCE

Faculty of Mathematics

Sept 2016 - Present

Undergraduate Research Assistant, Waterloo, ON

- Implementing a standard data structure library for Flix, a functional programming language used for specifying static analysis on programs.

AdRoll

May 2016 - Aug 2016

Full Stack Developer, San Francisco, CA

- Used Apache Storm and DynamoDB to implement Impression Segments, a method of segmenting cookies based on previously shown impressions.
- Leveraged Hadoop MapReduce to find matching cookie sets within two independent cluster groups. Used custom hashing to test cluster equality.

Oracle Eloqua

Sept 2015 - Dec 2015

Software Developer, Toronto, ON

- Utilized the Flux Pattern with TypeScript and ReactJS to create a multistep dynamic Bulk API learning tool for third-party developers.

Side Effects Software Inc

3D Software Developer, Toronto, ON

May 2015 - Aug 2015

- Built a viewport handle (C++) for manipulating cones with non-uniform angles.
- Developed a tool for initializing a ragdoll's joint limits from a set of animation clips.

PROJECTS

Java User Interfaces

2016

- Leveraged MVC to design five projects including games, a doodle application and a photo-viewing application with Java Swing and Android.

Odyssey of the Mind: Second Place

2016

- Wrote and performed a theatrical skit, creatively attributing the existence of humans to the story and moral of one of Aesop's fables going viral.

Google Games: Second Place

2016

- Competed in programming problems, logic puzzles and word association challenges

AWARDS

Computational Math Scholarship

2016

- Top grades in Computational Mathematics

Electrohome 75th Anniversary Scholarship

2016

- Performance in upper-year Computer Science

R.A. Wentzell Memorial Scholarship

2016

- Top male student in year three of Applied Mathematics

Ronald G. Scoins National Scholarship

2013 - 2016

- Distinguished results in mathematics competitions

Beach Volleyball National Champion

2013 - 2015

- Won the Canadian Championships at 18U and 22U levels

EDUCATION

University of Waterloo

Waterloo, ON, Canada

Bachelor of Mathematics

Expected June 2018

- Computer Science, Applied Mathematics, Computational Mathematics
- Cumulative Average 92.3%