

→ Computer Science
→ Applied Mathematics
→ Computational Mathematics

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SKILLS

C++, Java, Python, JavaScript, HTML, CSS, ReactJS, Android, Git
Hadoop MapReduce, Apache Storm, Flux Pattern, AWS

WORK EXPERIENCE

Faculty of Mathematics

Sept 2016 - Present

Undergraduate Research Assistant, Waterloo, ON

- Implemented 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.

HACKATHONS

Hack Holyoke, Mount Holyoke, MA

Nov 2016

- Used ReactJS and AWS S3 to build giddit.io, a site for sharing and searching for unique advice. Winner of Best AWS Hack Prize (two-person team).

Hack PSU, State College, PA

Nov 2016

- Used ReactJS and three APIs to create a workflow for growing your own food based on local gardeners and climate data. Winner of Food for Thought Prize (three-person team).

Hack OSU, Columbus, OH

Nov 2016

- Developed an app on Mac for the Myo Armband that allows users to draw in a virtual plane. Gestures activated drawing utensils/erasers and predefined patterns (three-person team).

Hack Harvard, Cambridge, MA

Oct 2016

- Leveraged ReactJS and Microsoft's Computer Vision and Emotion APIs to generate short stories based on a photograph (solo project).

PROJECTS

Google Games: Second Place

2016

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

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.

AWARDS

Computational Math Scholarship – Computational Math

2016

Electrohome 75th Anniversary Scholarship – Computer Science

2016

R.A. Wentzell Memorial Scholarship – Applied Math

2016

Ronald G. Scoins National Scholarship – Math Contests

2013 - 2016

Beach Volleyball National Champion – 18U and 22U levels

2013 - 2015

EDUCATION

Bachelor of Mathematics, University of Waterloo

Expected June 2018

- Computer Science, Applied Mathematics, Computational Mathematics (97.8% 3B average)