LIAM PALMER

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EDUCATION

University of Waterloo, *Waterloo, Canada* — *Present*

- Bachelor of Mathematics, majoring in Computer Science, Applied Math, and Computational Math. GPA: 93/100

SCHOLARSHIPS

- **Ronald G Scoins National Scholarship** – Distinguished results in mathematics contests — *2013 – 2018*
- **President's Research Award** – Research assistantship with professor — *2016 – 2017*
- **Electrohome 75th Anniversary Scholarship** – Performance in 3rd year Computer Science — *2016 – 2017*
- **Computational Math Scholarship** – Top performance in 3rd year Computational Math — *2015 – 2017*
- **R.A. Wentzell Memorial Scholarship** – Top performance in 3rd year Applied Math — *2015 – 2016*

ACADEMIC EXPERIENCE

Undergraduate Research Assistantship, *University of Waterloo* — *Fall 2016 – Winter 2017*

- Contributed to the programming language Flix, designed for static analysis on programs.
- Implemented a data structure library for types List, Set, Map, Option, and Result, along with integer types (Int8, Int16, Int32, Int64, BigInt) and float types (Float32, Float64).
- Wrote tree shaking and optimization compilation phases in Scala.

Face Recognition Literature Survey, *University of Waterloo* — Winter 2017

- Wrote a literature survey on face recognition as part of CS489 Machine Learning.
- Summarized and compared holistic, feature-based, and hybrid techniques from six publications (view at liampalmer43.github.io/me/#/faceRecognitionLiteratureSurvey)

PROFESSIONAL EXPERIENCE

Software Engineer Intern, *Facebook* — *Present*

- Implemented a load-testing framework (C++) for the Tupperware Scheduler, a distributed system used for deploying services. Defined scheduler scalability metrics.

Software Engineer Intern, *Uber* — *Spring 2017*

- Designed and implemented front-end and back-end components for Metron, Uber's platform for storing and sharing metric definitions. Used React Redux, CSS, and Java.
- Received highest internship review (outstanding) and full-time offer.

Software Engineer Intern, *AdRoll* — *Spring 2016*

- Created Impression Segments, a feature for targeting customers based on ad history.

Software Developer Intern, *Oracle* — *Fall 2015*

- Created an interactive web tool for external developers to learn Oracle's marketing API.

Software Developer Intern, *SideFX Software Inc* — *Spring 2015*

- Built a viewport handle for manipulating non-uniform cones. Used C++ and OpenGL.

TECHNICAL EXPERIENCE

Hack Harvard, *Harvard University* — *Fall 2016*

- Used Microsoft's computer vision API to generate stories from photos (solo project).

Hack Holyoke, *Mount Holyoke College* — *Fall 2016*

- Built a web service for sharing advice. Winner of Best AWS Hack (two-person team).

Hack PSU, *Pennsylvania State University* — *Fall 2016*

- Created a workflow for growing your own food based on climate data and local gardens.

Hack OSU, *Ohio State University* — *Fall 2016*

- Developed an app for the Myo Armband that allows users to draw on a virtual plane.

AWARDS

- **Putnam Mathematics Competition Top 300** – Mathematics competition — *Fall 2016*
- **Odyssey of the Mind Second Place** – Creativity competition, theatrical performance — *Spring 2016*
- **Google Games Second Place** – Coding challenges, logic puzzles, and trivia — *Winter 2016*
- **Beach Volleyball U21 World Championships** – Represented Canada in Larnaca, Cyprus — *Spring 2014*
- **Beach Volleyball National Gold Medalist** – 18U and 22U age categories — *2013 – 2014*

PROGRAMMING

C++, Java, Hadoop, Spark, TensorFlow, Javascript, MATLAB, SQL, Python, React, Redux, CSS