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Lucas Palmer

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EMPLOYMENT

Undergraduate Research Assistant   University of Waterloo   Jan 2017 - Present
- Currently improving the UI and adding features to Privacy Guard, an Android app that analyses network traffic.

Undergraduate Research Assistant   University of Waterloo   Sept - Dec 2016
- Used modern trends in Android programming to redesign the UI of an Android app that runs investment simulations.

Android Software Developer   Toast Inc. - Boston, MA   May - Aug 2016
- Fully developed a new Android display that summarizes orders to improve restaurant efficiency. This display got 1284 views with an average view time of 41 seconds in its first 2 weeks at 20 restaurants.
- Worked on a team of 3 to build the consumer-facing kiosk feature in the Android app, allowing customers to efficiently place and pay for orders themselves.
- When a customer was threatening to leave because cash drawers were taking up to 6 seconds to open, investigated and implemented an optimization that reduced the time by 40x.

Software Developer   BigRoad Inc. - Waterloo, ON   Sept - Dec 2015
- Expanded the Selenium and Appium automated testing suites in the early stages of the testing infrastructure.
- Prevented the recording of redundant data and displayed additional information in the Android app.

3D Software Developer   Side Effects Software Inc. - Toronto, ON   May - Aug 2015
- Created a node to control world-level geometry objects using Python scripts.
- Turned an old network tree into a useful scene management tool by allowing artists to select similar geometry nodes.

EDUCATION

Waterloo, ON   University of Waterloo   Sept 2013 - Apr 2018
- Majoring in Computer Science, Applied Math, and Computational Math (92% cumulative average).
- Currently taking courses in Big Data (Hadoop, Spark), Graphics (OpenGL), and Machine Learning.
- Completed 38 courses over 6 academic terms, 29 of which were in mathematics and computer science.

TECHNICAL PROJECTS

- **Hack Holyoke** (Nov 2016): Built a web app using React JS and AWS S3 that lets users post and look up unique advice (team of 2, Best AWS Hack Winner).
- **Hack Penn State** (Nov 2016): Built a web app using React JS and 3 different APIs to collect climate data and help users grow their own food (team of 3, Food for Thought Prize Winner).
- **Hack Ohio State** (Nov 2016): Used Myo arm band to build a motion and gesture activated drawing app for Mac that allows users to draw in a virtual 3D plane with their arm (team of 3).
- **Hack Harvard** (Oct 2016): Built an Android app that allows users to set alarms and edit to-do lists on each other's phones via text message (solo project).

ADDITIONAL EXPERIENCE AND AWARDS

- **President's Research Award** (Sept 2016, Jan 2017): University of Waterloo grant for part-time research.
- **Odyssey of the Mind World Finals, 2nd Place** (May 2016): Performed an 8-minute dramatic skit focused on creativity.
- **Google Games, 2nd Place** (Apr 2016): A coding and problem solving competition hosted in Waterloo.
- **Computational Math Scholarship** (Apr 2016): Top grades in University of Waterloo Computational Math.
- **Schulich Leader Scholarship** (Sept 2013 - Apr 2018): Distinguished high school achievement.
- **Beach Volleyball National Champion** (Aug 2013, Aug 2014): In the 18U and 22U age divisions.

LANGUAGES AND TECHNOLOGIES

- Proficient with Android development, Java.
- Experience with C++, Hadoop, Spark, Python, HTML, CSS, JQuery, JavaScript, Java Swing, Git.