University of Waterloo 4A
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Lucas Palmer

Computer Science
Applied Math
Computational Math

Skills

- Android, Java, C++, Python, HTML, CSS, JQuery.

Work Experience

Undergraduate Research Assistant, University of Waterloo Jan - Apr 2017
- Currently working on an Android app that analyses the network traffic of all apps on a smartphone in order to detect leakage incidents.

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

Software Developer, Toast Inc, Boston, MA May - Aug 2016
- Fully developed a new Android display that summarizes orders to improve restaurant efficiency. Got 1284 views with an average view time of 41 seconds in first two weeks.
- Worked on a team of three 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 a fix that reduced the time by 40x.

Software Developer, BigRoad Inc, Waterloo, ON Sept - Dec 2015
- Greatly expanded the Selenium and Appium automated testing suites in the early stages of the company's automated testing infrastructure.
- Implemented new behavior in aspects of the Android app to display additional information and prevent the app from recording redundant data.

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

Hackathons

Hack Holyoke, Mount Holyoke, MA Nov 2016
- Built a web app using React JS and AWS S3 that lets users post and look up unique advice (team of two, Best AWS Hack Winner).

Hack Penn State, Pennsylvania State University Nov 2016
- Built a web app using React JS and 3 different APIs to help users collect climate data and grow their own food at home (team of three, Food for Thought Prize Winner).

Hack Ohio, Ohio State University Nov 2016
- Used Mio arm band to build a motion and gesture activated drawing app (team of three).

Hack Harvard, Harvard University Oct 2016
- Built an Android app that allows you and your friends to set alarms and edit to-do lists on each other's phones via text message (solo project).

Google Games, Google Waterloo Office Apr 2016
- Came 2nd place in this trivia, coding, and problem solving competition.

Education

Bachelor of Mathematics, University of Waterloo Sept 2013 - Apr 2018
- Majoring in Computer Science, Applied Math, and Computational Math (97% average 3B).

Scholarships and Awards

- President's Research Award, University of Waterloo Sept 2016
- Computational Math Scholarship, University of Waterloo Apr 2016
- Schulich Leader Scholarship, University of Waterloo Sept 2013 - Apr 2018
- Two-time Beach Volleyball National Champion Aug 2013 - Aug 2014