

# Arkady Arkhangorodsky

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## EXPERIENCE

### ORBIS ACCESS | Software Engineering Intern

May – Aug 2015 | Vancouver, BC

- Created from scratch the website for the Orbis Challenge for both competitors and administrators
- Full stack web development, using the .NET framework, Microsoft Azure, AngularJS and Less
- Did business intelligence and analytics work with Google Analytics and QlikView

### BADER LAB | Summer Researcher

Jun 2013 – Aug 2014 | Toronto, ON

- (2014) Contributed to a Cytoscape plugin to automatically annotate functional genetic enrichment maps
- (2013) Studied high dimensional data visualization and dimensionality reduction
- Worked in Java, R, and Python

## PROJECTS

### THE ORACLE OF HIP-HOP

[arkadyark.me/visualizations/rap-network](http://arkadyark.me/visualizations/rap-network)

- Data visualization of the collaboration network of hip hop artists
- Each artist is given a number representing their distance to the central artist; a Kevin Bacon number for rappers
- Made using Ruby, d3.js, jQuery, and data from RapGenius

### AISTEROIDS

[devpost.com/software/aisteroids](http://devpost.com/software/aisteroids)

HackThePlanet 2015

- Two player asteroids, where code can be submitted to control the first player
- The second player uses machine learning algorithms to train an artificially intelligent bot to beat all of the submissions received
- Uses a Node.js server and runs on Microsoft Azure

### CENSORME

[play.google.com/store/apps/details?id=me.arkadyark.www](https://play.google.com/store/apps/details?id=me.arkadyark.www)

DeltaHacks 2015

- Android app that allows users to define words to avoid, notifies the user ever time it catches them saying them, and keeps a running count
- Won second place overall at DeltaHacks 2015

## AWARDS

- 2015 University of Toronto Dean's List
- 2015 Second place at DeltaHacks student hackathon
- 2014 Orbis Challenge winner (1<sup>st</sup> out of ~100 teams)
- 2014 President's Entrance Scholarship

## EDUCATION

### UNIVERSITY OF TORONTO

BASc in Engineering Science

2014 - 2018

### EXTRACURRICULAR ACTIVITIES

UofT Robotics Association

2016: Autonomous Rover Team, Webmaster

2015: Sumo & Top Secret teams

Hackathons

2015 - present: attended many (5) student hackathons all around Canada and America

University of Toronto Aerospace Team (Computer Vision), Intramural Soccer, Hacker Academy

## RELEVANT COURSEWORK

### IN-SCHOOL

Praxis (Engineering Design) I and II  
Engineering Mathematics and Computation

### ONLINE (MOOCS)

Algorithms: Design and Analysis (parts 1 & 2)

Programming Languages

Computing for Data Analysis

For a complete list, see [arkadyark.me/res/moocs.pdf](http://arkadyark.me/res/moocs.pdf)

## SKILLS

### PROGRAMMING

Significant experience (2000+ lines)

Python • Java • Javascript • R  
Knowledgeable (500+ lines)

C • C# • Ruby • Matlab • PHP  
Familiar

L<sup>A</sup>T<sub>E</sub>X • Racket • C++

### HARDWARE

Arduino/Spark • 3-D Modelling/CAD •  
Soldering • Woodworking • Basic  
machining