

# Kurt DaCosta

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## COURSEWORK

### MCMASTER UNIVERSITY

Data Structures & Algorithms  
Computer Architecture  
Operating Systems  
Principles of Programming  
Software Design Fundamentals  
Computer Based Problem Solving  
Information Systems In Business

### JOHNS HOPKINS UNIVERSITY

Data Science Specialization via  
Coursera (expected April 2015)

### STANFORD UNIVERSITY

iPhone Application Development

## SKILLS

Java • JavaScript • Objective-C  
Node.js • Angular.js • Express.js  
iOS CocoaTouch • NGINX  
Redis • MongoDB • GIT  
Agile Methodologies

## LEADERSHIP

### HACKITMAC

Organized technology talks and  
provide mentorship on current web  
technologies and architectures.

### DELTAHACKS

Organizing the first hackathon at  
McMaster University. Managing  
development of registration,  
submission and sponsor systems.

### GOOGLE DEVELOPER GROUP

Presented an introduction to the  
"MEAN" web development stack.

### MCMASTER SOFTWARE ENGINEERING OLYMPICS

Coordinated execution of  
programming challenges to over 125  
highschool students from across  
Ontario. Judged submissions and  
provided mentorship to participants.

## EDUCATION

### MCMASTER UNIVERSITY | HONOURS B.A.Sc, COMPUTER SCIENCE

Expected May 2016 | Hamilton, ON

- Minor, Information Systems - DeGroote School of Business

## WORK EXPERIENCE

### UNDERGRADUATE RESEARCH ASSISTANT | MCMASTER UNIVERSITY

June 2014 – Present | Hamilton, ON

- Consulted with Dr. Kevin Veenstra (DeGroote School of Business, McMaster University), to identify solutions to improve efficiency of research staff.
- Developed and deployed web applications to streamline data scraping. Saved over \$7500 in manual data entry costs.

### CO-FOUNDER & ENGINEERING LEAD | WOOF LABS, INC

Feb 2014 – September 2014 | Toronto, ON

- Implemented cloud infrastructure to handle growth to 60,000 users.
- Migrated monolithic application to service-oriented architecture.
- Implemented in-memory data layer. Increased performance to activity feeds.
- Prioritized communication between business and engineering teams.
- Involved in all aspects of the company, from design to investment and product strategy.

### IOS DEVELOPER INTERN | NITEROLL, INC

May 2013 – April 2014 | Ottawa, ON

- Worked with design, backend, and product teams to improve and implement features in all NiteRoll iOS applications.
- Implemented user interface, ticket purchase workflows, and location-based features for venue patrons.
- Implemented scanning tickets via device camera, and analytic dashboards to monitor promoter and venue performance. Reduced staffing requirements saved venues \$5000 per year.

## PROJECTS

### TIPSYLOCK

The Next 36 Hackathon 2014

Drunk driving deterrent using Muse EEG  
headband and Nymi ECG wristband  
wearable technology. **1st place winner**

### PEEP

YHack 2014

iOS Hyperlocal Apparel Search

### FB MUSIC RECOMMENDER

Personalized music discovery platform  
using Facebook Graph API.

### VISUALIZATION OF CLUSTERS IN HIGH-DIMENSIONAL MUSIC DATA

McMaster University & Microsoft  
Building machine learning pipeline to  
ingest 600MM rows of global music  
consumption data.

### MCMASTERGRAM

Built web application that displays all  
Instagram media with McMaster  
University related tags.