

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. Led
group coding of real-time chat app.

MCMASTER SOFTWARE ENGINEERING OLYMPICS

Coordinated execution of
programming challenges to 100+ high
school students. Judged submissions
and provided technical mentorship.

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 ticket scanning, guest entry, and analytic dashboards to monitor promoter and venue performance. Reduced staffing requirements saved venues \$5000 per year.

PROJECTS

TIPSYLOCK

The Next 36 Hackathon 2014

Wearable technology drunk driving deterrent. Uses Nymi ECG wristband to identify user, and Muse EEG headband to detect intoxication. **1st place winner**

MCMASTERGRAM

Web application that displays real-time Instagram media with McMaster University related tags. Built using Instagram Real-Time API, Redis Sorted Sets, Node.js and WebSockets.

VISUALIZATION OF CLUSTERS IN HIGH-DIMENSIONAL MUSIC DATA

McMaster University & Microsoft
Building big data analytical tools and machine learning pipeline to enable analysis on 1.3B records of music consumption from Microsoft MixRadio.

FACEBOOK MUSIC RECOMMENDER

Personalized music discovery platform using Facebook Graph API and Echo Nest API. Explore artists that are recommended by likes in your network.