Kurt DaCosta

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Web: kurtbradd.com | LinkedIn: Kurt DaCosta | Github: @kurtbradd | Twitter: @kurtbradd

SKILLS

Java • JavaScript • Objective-C Node.js • Angular.js • Express.js PostgreSQL • Redis • NGINX UNIX • GIT • REST APIs • SOA Amazon Web Services

EC2 • VPC • S3 • RDS • Redshift

HACKATHONS

PENNAPPS WINTER 2015

Health Hack Honorable Mention WanderWise - Haptic feedback navigation for the deaf & blind. Uses OpenCV, RasPi, Arduino, Proximity Sensors, and iOS.

NEXT 36 HACKATHON 2014

1st Place Winner

TipsyLock - Wearable drunk driving deterrent using Nymi ECG and Muse EEG wearables.

LEADERSHIP

DEGROOTE ASSOCIATION FOR INFORMATION SYSTEMS

VP Technology (2015 - 2016) Hosting business oriented tech talks and networking events.

HACKITMAC

Technology Exec (2014 - 2016) Leading a 16 week workshop on full-stack and iOS development. Hosted guest technical speakers and career development events.

DELTAHACKS 2015

Logistics Exec (2014 - 2015) Lead logistics team for the first ever hackathon at McMaster. (300+ students, 20+ sponsors)

COURSEWORK

MCMASTER UNIVERSITY

Data Structures & Algorithms Database Management Systems Distributed Computer Systems Operations Research

STANFORD UNIVERSITY

iPhone Application Development

WORK EXPERIENCE

DIGITAL MUSIC LAB | RESEARCH ASSISTANT

May 2015 - Present | McMaster University

- Research in the field of Music Information Retrieval (MIR), primarily focused on context based music recommender systems.
- Lead integration of data sharing collaboration with MixRadio, allowing access to streaming music consumption data from 50 million users globally.
- Deployed cloud infrastructure to support cluster computing, distributed web crawling, and data warehousing, improving analytical query times by a factor of 80.
- Implemented data pipeline for automated migration of terabyte scale music consumption database into Redshift data warehouse for analytical processing.

EGO, INC | PLATFORM ENGINEERING LEAD

February 2015 - September 2015 | Consulting

- Implemented RESTful API with token based authentication for iOS clients.
- Deployed backend on AWS, ensuring scalability, availability and fault-tolerance.
- Utilized relational, document, and key-value data stores to maximize performance.

DEGROOTE SCHOOL OF BUSINESS | RESEARCH ASSISTANT

June 2014 - December 2014 | McMaster University

• Developed web applications to simplify creation and monitoring of data scraping tasks. Saved over \$7500 per month in human resources.

WOOF LABS, INC | Co-Founder & Engineering Lead

Feb 2014 - September 2014 | Toronto, ON

- Woof simplified life for dog parents, a social network of dog lovers and their dogs.
- Deployed service-oriented backend on AWS supporting 60K mobile users globally.
- Migrated activity feeds to an in-memory data store. Improved response time of activity feeds, and reduced load on primary data store.

NITEROLL, INC | IOS DEVELOPER INTERN

May 2013 - April 2014 | Ottawa, ON

- Implemented event discovery and ticket purchasing on flagship application.
- Developed analytics application to monitor promoter and venue performance.

RESEARCH

COGMIR 2015 | GENERAL RECOMMENDATION SYSTEM APPLIED TO MULTI-ATTRIBUTE PRODUCTION METADATA

September 2015 | Ryerson University

• Presented a novel approach to music recommendations using inexplicit user preference for secondary artists involved in a tracks production; these include producers, engineers, vocalists, session musicians, etc.

FDUCATION

MCMASTER UNIVERSITY | Honours B.A.Sc, Computer Science

Expected April 2016 | Hamilton, ON

• Minor, Information Systems - DeGroote School of Business