Nolan Dey

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SKILLS

- Languages: Javascript, Objective-C, Swift, Java, Python, C++, HTML, and CSS
- Libraries: Node, Express, React, MongoDB, Google Protobuf, Firebase, Arduino, and Watson

EXPERIENCE

Connected Lab
Software Engineer   **May 2016 - Present**
- Iterated upon multiple micro-services using Node, Express, React, and MongoDB
- Used node-inspector to resolve memory leaks found during load testing
- Implemented analytics API to return aggregations, breakdowns, and trends about objects
- Worked on iOS app which enables users to play music to speakers via wifi or bluetooth

Kik Interactive
iOS Developer   **Sept 2015 - Dec 2015**
- Developed a performant card stack swiping view using UICollectionView and CoreAnimation
- Implemented new network protocol using Google Protobuf with threading and error-handling
- Modified conversations list NSFetchedResultsController to support heterogeneous cells

Kik Interactive
Release & Quality Assurance Engineer   **Jan 2015 - Apr 2015**
- Added ability to translate messages in iOS app using Watson Language Translation (Hack)
- Wrote test suites, rigorously tested new features, and worked with developers to find issues
- Planned and facilitated user experience tests with external users to collect usability data

Carols for Cans
Founder, Head Organizer   **Dec 2012 - Present**
- Annually organize event where students sing Christmas carols in exchange for food donations
- Donated 7800 food items since 2012, with 478 students participating from 24 schools
- Recruited organizers, facilitated meetings, and managed team progress using Trello

PROJECTS

SaveMe (getSaveMe.com)   **Nov 2015 - Present**
- Implemented app which calls 911 and texts emergency contacts with one tap in Swift
- Used Alamofire to make JSON HTTP requests and interface with REST API

Missile Command   **July 2015**
- Built Space Invaders game using an Arduino, an LED matrix, logic gates, and buttons
- Overcame challenges involving limited pins, hardware interrupts, and slow processor speed

ACHIEVEMENTS

- Waterloo Engineering Debate (1st) 2015
- Rotary Youth Leadership Award 2015
- Duke Of Edinburgh Gold Award 2014

- Finalist in Canada Wide Science Fair 2014
- Shad Valley Waterloo Participant 2013
- Black Belt in Shotokan Karate 2012

EDUCATION

Systems Design Engineering - University of Waterloo   **2014 - Present**
- Courses: Digital Computation (C++), Algorithms (Java, Python), Human Factors in Design

Developing iOS 7 Apps for iPhone and iPad (iTunes U) - Stanford University   **2015**