

matthew kuzyk

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PROFILE

- Languages/Frameworks: **Node.js**, **SQL**, **JavaScript**, **Java**, **Ruby**, **Rails**, **Backbone.js**, **AngularJS**, **Android**, and **HTML**
- Tools: **Git**, **UNIX**, **AWS**, **Docker**, **Capistrano**

WORK EXPERIENCE

- Full Stack Engineer - **Taplytics** January 2015 - May 2015
- Automated entire build, test, and deploy process on **AWS**
 - Built push notifications as a service for clients with millions of users
 - Planned out and developed entire public **Node.js API**, with maximum **test coverage**, best security practices, and proper documentation
- Co-Founder - **Hack the North** Ongoing
- Co-founded Canada's biggest hackathon with over 1000 attendees
 - Reached out for judging opportunities to companies such as Y Combinator
 - Constructed complex registration and application mailer system for over 3000 applicants
- Software Developer - **500px** May 2014 - September 2014
- Developed fast, single page apps used by millions
 - Sped up network requests through API restructuring
 - Regularly proposed and implemented significant architecture and design changes, such as introduction of Marionette.js to improve modularity and readability of Backbone code
- Software Developer - **Boltmade** September 2013 - January 2014
- Independently delivered entire applications, doing both the frontend and backend
 - Contributed to **Ruby on Rails** projects such as Bridgit, Swearnet, and Demeure
 - Implemented image uploading system from app to Amazon EC2 instance
- Software Developer - **PointClickCare** September 2012 - May 2013
- Built **MVC** software through development in **Spring** in conjunction with **JSP**
 - Developed strong **Java** principles such as factories, JavaBeans, Singletons, etc
 - Contributed to a complex enterprise **SQL** backend with sensitive performance constraints
- Intelligent Conversational Systems Engineer - **Nuance** January 2012 - May 2012
- Adapted an **agent-based dialogue** programming paradigm with **Java**
 - Parsed large sets of speech keywords using **Python**
 - Authored code in a highly optimized **NLP** system

PROJECTS

- FlyNotify Ongoing
- Created **Arduino** and **iOS** code for system that notifies a user when their pants fly is down
 - Built conductive thread circuit into pants to know when the zipper is down
 - Learned how to use a **Bluetooth** Low Energy device and how to communicate over Bluetooth
- CTF Security Competition Ongoing
- Placed 17th out of 228 teams in a UIUC hosted CTF competition
 - Worked on problems such as exploitation of heap overflow, and breaking into a fake bank website
- PennApps 2014 February 2014
- Created a tipper that allowed sending of Dogecoin through Facebook called Give Me The Tip
 - Awarded sponsor prize for best use of hosting platform (Digital Ocean)
- MHacks III January 2014
- Hacked together a **Rails** Tumblr scraper for following favorite tags, called Tumblr Famous
 - Implemented and debugged the **OAuth** and API scraping on the backend

EDUCATION

- University of Waterloo Graduating: April 2017
- Third year student in Systems Design Engineer, a holistic multidisciplinary approach focusing on understanding the systems that surround us in their entirety
 - Relevant Courses: Introduction to Design, Human Factors in Design, Digital Computation, Data Structures and Algorithms
 - Projects: Filter circuit for multiple pulsating LEDs, Google Calendar redesign, VHDL casino game