

# matthew kuzyk

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## PROFILE

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

## WORK EXPERIENCE

### Security Developer - **Yelp**

September 2015 - December 2015

- Enhanced open source **Elasticsearch** log monitoring and alerting system, **ElastAlert**
- Increased signal-to-noise on security alerts by creating self service alerting app using **Python**, **Flask**, and **React**
- Automated verification and configuration of allowed IPs for Yelp's internal proxy (**Stargate**)

### Full Stack Developer - **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

### 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 Developer - **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

### Co-Founder of 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
- Purchased and managed more than \$5000 of hardware for hackers to use

### 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**

### 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**)

## 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, **submersible drone**