

MATTHEW KUZYK

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PROFILE

Languages/Frameworks: [Node.js](#), [SQL](#), [JavaScript](#), [Ruby](#), [Rails](#), [Python](#), [Scala](#), [Java](#), [React](#), [Angular](#), [Android](#)

Tools: [Git](#), [UNIX](#), [AWS](#), [Docker](#), [Capistrano](#), [Elasticsearch](#), [Gulp/Grunt](#)

EXPERIENCE

Platform Engineering Intern - Harry's

May - Aug '16

Saved the company ~\$60k per quarter by automating product failure emails using [Scala](#)

Fixed Facebook authentication issues and vulnerabilities with the [OAuth](#) implementation on the [Rails](#) app

Updated discount code schema and model, increasing marketing acquisitions through podcasts

Security Engineering Intern - Yelp

Sept - Dec '15

Enhanced ElastAlert, an open source [Elasticsearch](#) monitoring and alerting tool, by increasing alert flexibility

Increased signal-to-noise on security alerts by creating self-service alerting app using [Python](#), [Flask](#), and [React](#)

Automated verification and configuration of whitelisted IPs for Yelp's internal proxy

Full Stack Engineering Intern - Taplytics

Jan - April '15

Automated entire build, test, deploy, and load balancing process on [AWS](#) using [Gulp](#)

Built push notifications as a service platform for clients with millions of users using [Amazon SNS](#) and [SQS](#)

Planned and developed a secure public [Node.js API](#) independently, with full test coverage and documentation

Web Developer Intern - 500px

May - Aug '14

Sped up page loads through API restructuring, removing blocking requests

Regularly proposed and implemented architecture and design changes, such as introduction of [Marionette.js](#)

to improve modularity and readability of [Backbone](#) code

Software Developer Intern - Boltmade

Sept - Dec '13

Independently delivered full stack features by working directly with clients

Contributed to [Ruby on Rails](#) projects for local tech startups such as Bridgit, Swearnet, and Demeure

Implemented image uploading system from a [Rails](#) app to [Amazon EC2](#) instance

Conversational Systems Developer Intern - Nuance

Jan - April '12

Built software for finding user intent through speech with agent based dialogue programming in [Java](#)

Parsed large sets of speech keywords using [Python](#), used for decision making

Authored application critical code that interacted with a [Natural Language Processing](#) system

PROJECTS

Co-founder of Hack The North

May '14 - Sept '15

Cofounded Canada's largest hackathon with over 1000 attendees

Constructed complex registration and application mailer system for over 3000 applicants

Purchased and managed more than \$5000 of hardware for hackers to use

Product Recall Detection - Fourth Year Design Project

Ongoing

Built a [machine learning classifier](#) to identify product safety issues on [Amazon](#), outperforming state of the art

Developed a modular feature extraction pipeline, used [NLP](#) techniques such as stemming and stopwords

Helped automate importing of product recalls and Amazon reviews

Cryptocurrency Tipper

Feb 14'

Created a tipper that allowed sending of [Dogecoin](#) through Facebook at PennApps 2014

Awarded sponsor prize for best use of hosting platform (Digital Ocean)

Video Thumbnail Summary w/ Linear SVD

April 16'

Automatically generated the best possible thumbnails for any video using a histogram matrix and matrix SVD

Compared visual information between frames through eigenvalue decomposition using [OpenCV](#) in [Python](#)

EDUCATION

Systems Design Engineering - BAsC (Hons), University of Waterloo, 2017