

# MATTHEW KUZYK

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## PROFILE

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

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

## EXPERIENCE

### Associate Software Developer - Thomson Reuters

Sept '17 - Present

Delivered [Single Sign On](#) auth capability for major clients, using [.NET](#), [SAML](#), [OpenAM](#), and [Angular](#)

Created [Agile](#) process from scratch, implemented standards for the team around [Git](#), versioning, and release

Led early design phase of SSO tool, defined user requirements

Mentored both new grads and interns on [Git](#), [JavaScript](#), and development practices

### Platform Engineering Intern - Harry's

May - Aug '16

Saved the company ~\$240k per year 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, 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](#)

### Software Developer Intern - Boltmade

Sept - Dec '13

Independently delivered full stack features by working directly with clients on [Ruby on Rails](#) projects

### Conversational Systems Developer Intern - Nuance

Jan - April '12

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

## PROJECTS

### Co-founder of Hack The North

May '14 - Sept '15

Cofounded Canada's largest international hackathon with over 1200 attendees

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

### Product Recall Detection - 4th Year Project, [Published Paper \(IEA Conference\)](#)

Sept '16 - Jun '18

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

Relevant courses: Data Structures & Algos, Image Processing, Computer Structures and Real-Time Systems