

# SARTH FREY

## EXPERIENCE

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### KIK

#### Data Science

- Led community data initiative to report abusers
- Experimented with NLP to help effort
- Set up ETL for data insights
- Built and optimized data tracking systems

### SHOPIFY

#### Data Privacy

- Built Python scripts to track sensitive data
- Used spark to scale scripts
- Extended PII Rails app
- Fixed Ruby features

### MEDCAN

#### Data Science

- Ran algorithms to predict customer return with Python
- Improved chance of success over last model
- Set up file IO pipeline
- Wrote VBA scripts to optimize analytics time

### MOZILLA

#### Internet Privacy

- Co-developed 5+ badges for a youth web privacy education system
- Mined data to showcase privacy flaws

## PROJECTS

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### SpellCor · Spelling Corrector

- Constructed a bigram language model with first order Markov chain (COCA)
- Used a noisy channel model with Damerau-Levenshtein confusion matrix
- Python

### Sentimixer · Sentiment Analysis

- Built a web app that analyzes sentiment in text for positivity
- Python, Flask, Jinja, Google App Engine, HTML/CSS/JavaScript

### WatWhenWhere · Meet up Automation

- Web app that lets students find meet up times with friends
- Built core modules for schedule parsing, comparison, and search
- 110+ active users 2 days after release
- Python, Object Oriented Design, Levenshtein Search

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## TECHNICAL SKILLS

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<b>Langs</b>	Python, R, Scala, SQL
<b>Libs</b>	Spark, Scikit-Learn, TensorFlow, Matplotlib, Pandas, NLTK
<b>Core</b>	Git, Regression, Naïve Bayes, ANNs, KNN, Decision Trees, SVMs

## EDUCATION

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### University of Waterloo

#### BSE Software Engineering

- Data Science Club organizer, leading events and discussions for 200+ university students

## AWARDS

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FIRST Robotics · **1st Place** May 2015

- Outperformed 500+ people and went on to make playoffs at worlds

CEMC · **Euclid Contest** Apr 2015

- 90th percentile out of 18000+ math contest participants

## ACTIVITIES

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### Blog

- Discussed time at university and gained 1000+ views per week

### Heart and Stroke Foundation

- Taught 60 youth CPR as a Guinness world record event first aid assistant