

SARTH FREY

SOFTWARE ENGINEER · DATA SCIENTIST · WEB DEVELOPER

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EXPERIENCE

MEDCAN

Data Science Intern, CRM · Jul 2015 to Aug 2015 · Toronto, ON

- Created **ANNs** to predict customer return with **Python**
- Improved chance of success over last model by **32%**
- Set up file IO pipeline and used **SQL** to fetch data
- Wrote **VBA** scripts to optimize company analytics time

MOZILLA

Internet Privacy Researcher · Sep 2014 to Feb 2015 · Toronto, ON

- Developed online achievement system for youth privacy education
- Used **HTML/CSS** to design web activities including a web fraud exercise
- Co-created **5+** achievements involving ping test and IP exercises
- Mined personal info with **Urllib** to demonstrate privacy flaws

FRC ROBOTICS TEAM

Programming Lead · Sep 2011 to May 2015 · Mississauga, ON

- Organized control system for **4** multi-functional **120 lb** robots
- Utilized **LabVIEW** and **C++** to write code for autonomous robots
- Taught and managed **10+** developers to produce code within **4 weeks**
- Strategized for robot basketball, frisbee, and jungle gym climbing tasks

KIDS LEARNING CODE

Mentor · Aug 2014 to Dec 2014 · Toronto, ON

- Taught **HTML/CSS/JavaScript** to youth and helped debug code
- Inspired youth with personal **Python** and **C++** projects
- Won mentor award out of **20+** mentors
- Led **10+** youth per day

PROJECTS

Sleephacks · sarth.xyz/sleephacks

- Web service that allows hackathon hackers to stay with locals
- "A useful app that's needed in the marketplace" - CEO of Sandvine
- webapp2, Python, Google App Engine, HTML/CSS/JavaScript

WatWhenWhere · sarth.xyz/watwhenwhere

- 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

Maze Generator · sarth.xyz/mazes

- Script that produces random solvable mazes
- Python, Turtle

Sentimizer · sarth.xyz/sentimizer

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

SKILLS

LANGUAGES: Python, Java, C++, SQL, JavaScript, C, VBA
LIBRARIES/FRAMEWORKS: NumPy, Jinja, Flask, Webapp2, AngularJS, Scikit-learn, Google App Engine, Urllib
DATABASES: PostgreSQL, MySQL
OTHER: Git, SEO, Data Clustering, ANNs (Artificial Neural Networks)

AWARDS

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

- Beat 500+ people and went on to make playoffs at world championships

CEMC · **Euclid Contest** Apr 2015

- 90th percentile out of 18000+ math contest participants

UW · **SE Scholarship**

- \$5500 for involvement and academic achievement

ACTIVITIES

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

Canadian Cancer Society

- Campaigned to accept donations for 100+ hours

Hearthstone

- Achieved legend rank and in the top 1% of players globally

EDUCATION

University of Waterloo
Software Engineering