SARTH FREY

UNIVERSITY OF WATERLOO SOFTWARE ENGINEERING

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EMPLOYMENT

Medcan
Data Science Intern, CRM · Jul 2015 to Aug 2015 · Toronto, ON
- Created artificial neural networks in Python to analyze past customer data and predict churn
- Increased accuracy of previous model by 32%
- Used SQL to pull data into xlsx files and employed Openpyxl to read from those files
- Wrote excel macros in VBA to automate processes and save company time

Mozilla
Internet Security Researcher · Sep 2014 to Feb 2015 · Toronto, ON
- Developed a privacy system to spread internet privacy awareness and educate youth in online security
- Researched tech areas such as encryption, IP tracing, and targeted ads to co-design 10 live badges
- Created a plan for youth to earn badges by integrating desirability, correctness, and informativeness

FRC Robotics Team
Programming Lead · Sep 2011 to May 2015 · Mississauga, ON
- Organized the architecture of the command system for 4 multi-functional 120 pound robots
- Utilized LabVIEW and C++ Windriver to write code for the robots to run autonomously and manually
- Taught and managed a team of coders to produce the codebase within a timeframe of 3 to 4 weeks

Kids Learning Code
Mentor · Aug 2014 to Dec 2014 · Toronto, ON
- Led and engaged in educational and developmental activities with up to 10 youth during a day
- Helped teach HTML, CSS, and JavaScript to youth by solving code issues and going through specific examples
- Inspired youth with examples from personal software development including games made with C++

SKILLS

LANGUAGES: Python, Java, C++, SQL, MATLAB, JavaScript
LIBRARIES/FRAMEWORKS: NumPy, Android SDK, Jinja, Flask, Webapp2, AngluarJS, React, TensorFlow
DATASTORES: PostgreSQL, SQLite, MySQL
OTHER: Git, Arduino

PROJECTS

Sleephacks
- Created a web service that allows travelling hackathon hackers to stay with nearby locals
- webapp2, Python, Google App Engine, HTML/CSS/JavaScript

WatWhenWhere
- Designed and implemented back end collision and parsing algorithms for a web service that allows UWaterloo students to compare schedules with friends
- Python, PHP

Random Maze Generator
- Constructed a random maze generator that produces a random solvable maze with given dimensions
- Python, Turtle

Streamsorter
- Built an android app that gives users info about a student's co-op sequence, given their year of study
- Java, Android Studio

Sentimizer
- Made a micro web app that does sentiment analysis on text to figure out if it's happy or sad
- Flask, Python, Google App Engine, HTML/CSS/JavaScript

AWARDS

FIRST Robotics · 1st Place GTR East Robotics Regional   May 2013
Won the finals match in competitions of 500+ people and proceeded to make playoffs in the World Championships

University of Waterloo · Euclid Math Competition Distinction   Apr 2015
90th Percentile out of thousands of global participants

University of Waterloo · Software Engineering Scholarship   Jun 2015
Selected from of those admitted to UW Software Engineering to receive $5500 based on academics and extracurriculars