SARTH FREY

UNIVERSITY OF WATERLOO SOFTWARE ENGINEERING

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EXPERIENCE

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++

AWARDS

FIRST Robotics · 1st Place GTR East Robotics Regional   May 2015
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

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