

JONATHAN SUN

SOFTWARE DEVELOPER

✉ jonathan.sun@uwaterloo.ca

📞 647.774.7865

🐙 jspsun

in jonathan-sun

💻 http://jonathan.solar

TECHNICAL SKILLS

LANGUAGES

- Python
- Java
- C++
- JavaScript

TECHNOLOGIES

- Git
- Bash
- Android Studio
- Node.js
- React
- Django
- Eclipse
- Google Cloud API
- AWS

EDUCATION

B.ASc. COMPUTER ENGINEERING
University of Waterloo | 2016-2021

PROJECTS

ATHENA SMART-MIRROR HOME AI

(Python, Google Natural Language processing, Twilio API, Android Studio)

- Wrote an IOT voice assistant with natural language processing and smart-home integration
- Designed a smart mirror to display API fetches (i.e. weather, texts, stocks)
- Created an android app to send commands to the Athena Server
- Currently implementing a deep learning algorithm to run appropriate commands in response to user voice input

ATHENA VOICE ASSISTANT

(Python, Google Speech-to-Text API, Tesseract OCR)

- Used Google's Speech-to-Text API coupled with a smartphone microphone to enable voice commands as triggers for scripts
- Parsed OCR output to locate and click user-identified text elements
- Controlled mouse and keyboard interface for hands free accessibility

WEB-BASED SENTIMENT ANALYSIS

(JavaScript, Node.js, EJS, CSS, HTML, Twitter API, Tumblr API, Reddit API)

- Built a sentiment analysis engine with a modified corpus
- Implemented social media APIs to fetch posts from a given search query
- Ran sentiment analysis on parsed Tweets, Reddit and Tumblr posts to determine what the internet thinks about a given topic

EXPERIENCE

MERCHANT BRANDING

2015 - 2016

FOUNDER

- Founded a clothing printing company and grew annual revenues to over \$60,000
- Oversaw logistics, marketing, employees and customer satisfaction

DECA: YOUTH BUSINESS CLUB

2015 - 2016

CO-PRESIDENT – RICHMOND HILL CHAPTER

- Led training for provincial and international case competitions
- Expanded club membership to over 160+ students and increased club funding by over 30%
- Managed cash inflow of over \$66,000

YORK REGION DISTRICT SCHOOL BOARD

2012 - 2014

ROBOTICS CAMP COUNSELOR

- Worked with the YRDSB to develop and pilot a robotics curriculum

INTERESTS

- First person drone racing
- Mixed martial arts
- Hackathons
- Competitive coding
- IDE customization
- Laptop sticker collecting

AWARDS

- PEO Waterloo First Year Engineer of the Year | 2016
- Prime Leaders York Region: Pitch Competition Winner | 2016
- DECA International Team Marketing Finalist | 2014-2016
- Town of Richmond Hill Young Entrepreneur of the Year | 2015