JONATHAN SUN

SOFTWARE DEVELOPER

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jspsun

in

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TECHNICAL SKILLS

LANGUAGES

- Python
- Java
- C++
- JavaScript
- Objective-C
- SQL
- HTML
- CSS

FRAMEWORKS

- React
- Node.js
- Flask
- Django
- Bootstrap
- Express
- Electron

TECHNOLOGIES

- Git
- Bash
- · Android Studio
- Xcode
- Docker
- Redis
- · Google Cloud
- AWS
- Heroku
- Postman

EDUCATION

B.ASc. COMPUTER ENGINEERING University of Waterloo | 2016 - 2022

EXPERIENCE

THALMIC LABS Cloud and Backend Engineer

September 2017 - December 2017

April 2017 - September 2017

VIDEOSTREAM

Full Stack Developer

- (JavaScript, Node.js, Java, Android Studio, Objective-C, Xcode, HTML, CSS)
 Constructed deep learning neural net that analyzed user's wifi network symptoms, identified issues and troubleshot; resulted in automation of all customer support
 - Built video playback feature into mobile apps on both iOS and Android using proprietary transcoding algorithm; to-date the most popular premium feature on the Videostream mobile platform
 - Ported product to native build using Node.js to allow for better hardware control and network access

MERCHANT BRANDING

June 2015 - September 2016

Founder

Founded clothing printing startup and grew yearly revenue to over \$70,000

PROJECTS

ATHENA SMART-MIRROR HOME AI 65

(Python, Flask, Google NLP, API.ai, Android Studio, Twillio API)

- Created modular voice clients that interact with Flask server to automate home IOT devices (i.e. thermostat, lights, kettles)
- Incorporated natural language processing service for server-side speech interpretation and conversational dialogue
- Designed smart mirror interface for displaying API fetches (i.e. weather, text, stocks)
- Deployed Android app to send commands to Athena server

EARTHQUAKE MAP 🤌 🛗

(JavaScript, Express, P5.js, Firebase, TensorFlow)

- Scraped data of global earthquakes and visually plotted datapoints onto web-interface in real-time
- Implemented a decision tree via TensorFlow and used a supervised training set for rule extraction to predict and map future earthquakes
- Incorporated Firebase to manage earthquake database

SENTIMENT ANALYSIS WEB APP 2 5

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

- Worked with team in developer sprint to build a recursive deep model for sentiment analysis using a treebank and deployed API via Heroku
- Ran sentiment analysis on social media posts for a given topic to determine how the internet feels about a given subject

AWARDS

- PEO Waterloo First Year Engineer of the Year | 2016
- Prime Leaders York Region: Pitch Competition Winner | 2016
- DECA International Case Competition Rank #5 of 2000 | 2014 2016
- Town of Richmond Hill Young Entrepreneur of the Year | 2015

INTERESTS

- First-person drone racing
- Hackathons
- IDE customization
- Boosted boarding
- Aerial photography
- Laptop sticker collecting