

JONATHAN SUN

SOFTWARE DEVELOPER

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TECHNICAL SKILLS

LANGUAGES

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

FRAMEWORKS

- React
- Node.js
- Flask
- Django
- Sequelize
- 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

(JavaScript, Node.js, Express, PostgreSQL, Sequelize, Redis, RabbitMQ, Heroku)

- Implemented specs for internal APIs as **express micro-services**
- Deployed **cloud systems** for use in rapid product prototyping

September 2017 - Present

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 troubleshoot; resulted in **automation of all customer support**
- Built video playback feature into **mobile app** on **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

April 2017 - September 2017

MERCHANT BRANDING

Founder

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

June 2015 - September 2016

PROJECTS

ATHENA SMART-MIRROR HOME AI 🐱

(Python, Flask, Google NLP, API.ai, Android Studio, Twilio 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 🔗 🐱

(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