

# JACK MICHAUD

## Full Stack Engineer

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## EXPERIENCE

### Full Stack Engineer

Metascouter, Inc ( metascouter.gg )

📅 May 2018 – Present

📍 Seattle, WA

- Constructed APIs (REST, GraphQL) and broadcast graphics for integrating data into major esports broadcasts.
- Designed and developed web infrastructure while coordinating with remote team.
- Created real-time data pipeline using MQTT, queueing, and CloudFormation to ingest data from computer vision software.
- Implemented serverless AWS architecture with DynamoDB, Lambda, and API gateway with GraphQL interface.
- Carried out growth marketing experiments with AdWords and Google Analytics
- Started closed beta engaging with 5 end users actively using our product
- Negotiated partner stake in company

### Software Development Co-Op

Solaria Labs ( solarialabs.com )

📅 July 2018 – Dec 2018

📍 Boston, MA

- Implemented serverless AWS data pipeline and generic CloudFormation template generation.
- Collaborated actively with 2-3 teams writing Python and JS backend code, JS frontend, and integrating the data pipeline.
- Evaluated open source and commercial business data for reliability against ground truth.

### Founding Partner

Harrow Search ( harrowsearch.com )

📅 Oct 2015 – Present

📍 Manchester NH

- Established LLC for a website that displays analytics from data scraped from YouTube, Twitter, Facebook, and Instagram.
- Created web application stack with Django, ReactJS, Selenium, and Docker. Implemented CI/CD in Gitlab.
- Supervised and directed three temporary contractors.

## PROJECTS

### PythonWebsocketRCE

<https://github.com/jack-michaud/PythonWebsocketRCE>

- Created a CLI for controlling captive JS and bash clients over a network.
- Designed an API for running distributed programs and for remotely executing code.

### WiFi Beacon Detection

<https://github.com/jack-michaud/wifi-beacon-detect>

- Created CLI that uses a wireless interface in monitor mode to find nearby probe requests.
- Learned to integrate with the LiFX Light Bulb API to turn on when certain probes are detected (e.g. if my phone is nearby, my light will turn on).

## EDUCATION

### Northeastern University

B.S. in Computer Science

📅 Graduated: May 2020

- **Software Development:** Developed Software Engineering best practices (SRS documents, Scrum/Agile, testing)
- **Large Scale Parallel Data Processing:** Learned to design efficient algorithms in Hadoop and Spark
- **Systems Security:** Learned to mitigate operating system security in embedded, mobile, and desktop devices (RBAC, secure execution, chain of trust)

## SKILLS

### Languages

Python

TypeScript/JavaScript

Java

C

### Frameworks

Vue+Vuex

React+Redux+Hooks

Django

Django REST Framework

Apollo GraphQL

### Tools

AWS, SAM, Terraform, Cloudformation

Docker

Emacs

Vim

CI/CD (Gitlab, CircleCI, Bamboo)

Relational Databases

Webpack

## INTERESTS/ACTIVITIES

🎵 DJing and Music Production

📖 Hacking and Penetration Testing

🏆 Entrepreneurship and Hackathons

🚩 Collegiate Cyber Defence Club (CCDC)

📻 Campus Radio (104.9 WRBB)

❤️ Hiking