

# Jonathan Wong

## Software Developer

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## Education

**Rensselaer Polytechnic Institute Science** | May 2022 | GPA: 3.53

*Bachelor's in Information Technology & Web Science*

- Recipient of the Rensselaer Leadership Award
- Dean's Honors List
- Data Structures, Algorithms, Web Science & Systems Development, Computer Organization, Human Computer Interaction, Foundations of Computer Science

## Experience

**General Electric Digital Technology Leadership Intern** | June 2020 - Aug 2020

*Schenectady, NY - Remote*

- Defined and formalized process documentation to clearly communicate proper identity management to GE's stakeholders.
- Enhanced technical automation for the GE identify and access management platform.

**Data Lake & Analysis Research Position** | Sep 2019 - May 2020

*Rensselaer Polytechnic Institute*

- Used text preprocessing techniques and the levenshtein algorithm to identify and label Instagram profiles based off of influencer or brand status.
- Created an algorithm to efficiently download and label images with a custom and identifiable name from Crunchbase AWS S3 bucket.
- Performed extract, transfer, and load (ETL), techniques on a Kickstarter database.

**Peer2Peer – Full Stack Web Application** | July 2019 – Present

*Personal Project build with MERN Stack (MongoDB, Express.js, React, Node.js)*

- Fully functional login system using JSON Web tokens, hashed passwords, and mongoose schemas.
- Integrated Socket.IO to create a real time messaging environment for users.
- Created RESTful endpoints using CRUD operations and performed tests with Postman.

**Yelpify – Machine Learning Application** | April 2020 – June 2020

*Personal Project build with Scikit-Learn, React, Flask, Docker*

- Created a linear regression machine learning model to accurately predict a restaurant's Yelp Rating based off of user input.
- Used Docker to containerize my application by creating two images, one for the React frontend, and the other for the Flask backend.
- Constructed CRUD Flask endpoints to accept user input and output the machine learning model's Yelp prediction to the React dashboard.

**NYCMC – Multi-Speciality Practice Website** | May 2019 – June 2019

*Physician's company website built with Wordpress*

- Integrate UX and UI techniques to maximize user retention and provide ease of use and navigation.
- Website receives approximately 4,000 monthly views, and 50,000 yearly.
- Integrated Google Analytics, Google Reviews, and a pop-up scheduler.

## Skills

### Programming Languages

Python, JavaScript, C++, C, PHP, HTML/CSS

### Technologies

NodeJS, React, Angular, Express, MongoDB, MySQL, Docker, Flask, AWS, Socket.IO, Postman, Pandas, NumPy, Matplotlib, Scikit-Learn, Bootstrap, Git, GitHub, WordPress

### Technical

Data Structures & Algorithms, Machine Learning & AI, Data Science & Analytics

### Soft Skills

Leadership, Communication, Teamwork, Adaptability, Decision Making, Time Management, Problem Solving

## Leadership

### Sigma Sites

Founder | May 2019 – Present

- Coordinate and assess website development deals for 2 businesses.
- Manage domain names, web hosting, and website analytics to improve performance.
- Acted as the project manager to outline my team's vision in creating Sigma Sites.

### Leadership Educators Advising Peers

Workshop Facilitator | April 2020 – Present

- Selected from a competitive group to be trained in leadership education.
- Design and manage facilitation of student and organizations each semester.

### Sigma Alpha Epsilon Fraternity

Technology Chair | Aug 2020 - Present

- Responsible for maintaining the chapter website.
- Attend and participate in weekly meetings to deliver updates and future goals.

### HackRPI – University Hackathon Event

Junior Director of Technology | Mar 2019 – Present

- Worked on developing a dashboard and live messaging system for our 20+ sponsors including IBM, Bloomberg.
- Attend weekly meetings and discuss the technological part of the Hackathon event.