

# JONATHAN WONG

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## EDUCATION

### Rensselaer Polytechnic Institute (RPI)

*Bachelor of Science in Information Technology & Web Science*

**Troy, NY**

*Dec 2021*

- GPA: 3.53, HackRPI, Society of Asian Scientists & Engineers, Sigma Alpha Epsilon Fraternity

### Amazon Web Services (AWS)

*Solutions Architect Associate Certification (SAA-C02)*

**Remote**

*July 2020 – July 2023*

- Successfully passed exam to broaden knowledge in AWS Computing, Storage, Security, Database, and DevOps services.

## EXPERIENCE

### IBM

*DevOps Software Engineer Intern*

**Littleton, MA**

*May 2021 – Aug 2021*

- Automated a Travis continuous integration pipeline to automatically incorporate 5 Docker images into defined Custom Resource Definition files serving as a template for future product releases.
- Provisioned IBM Cloud services using Terraform to migrate local Watson based images to the cloud enabling team to release final applications at a 1.5x faster rate.
- Published 3 Kubernetes ETCD operator build and deployment videos to a Saudi Arabian based company leading to an improvement of workflow efficiency of 70%.

### General Electric

*Cybersecurity & Cloud Intern*

**Schenectady, NY**

*June 2020 – Aug 2020*

- Leveraged AWS Amplify, Lambda, API Gateway, S3, CloudWatch, CloudTrail, SNS to host an internal cybersecurity-oriented application focused on increasing transparency for high-risk threats.
- Managed 15 cyber security standard operating procedures by facilitating and leading meetings with 8 co-workers.

### Severino Center for Technological Entrepreneurship

*Software Engineer Undergraduate Researcher*

**Troy, NY**

*September 2019 – May 2020*

- Spearheaded the development of aggregating Kickstarter and Crunchbase data leading to an 80% speed improvement in the ETL pipeline using a custom web scraper built with Python.
- Orchestrated the expansion and reorganization of the team's Mongo database to improve lookup time by 40%.

### Peer2Peer

*Full-Stack Personal Project created with MERN Stack (MongoDB, Express.js, React, Node.js)*

**Remote**

*July 2019 – July 2020*

- Devised 12 RESTful APIs to streamline application functionality which were evaluated and tested with Postman and Jest.
- Assembled authentication and authorization architecture using JSON Web Tokens, hashed passwords, and mongoose schemas to support the backbone messaging infrastructure made with Socket.IO.

### Yelpify

*Machine Learning Personal Project created with Python, Sci-kit Learn, Pandas, Docker, AWS*

**Remote**

*April 2020 – June 2020*

- Trained a linear regression model scoring 83% to accurately predict a new restaurants Yelp rating to allow for owners to adjust their business model to attain higher ratings.
- Containerized application by creating 2 unique Dockerfiles and deployed the image on AWS using ECS, EC2, and ELB.

## SKILLS

**Programming Languages:** Python, JavaScript, C++, PHP, HTML/CSS

**Technologies & Frameworks:** AWS, Docker, Kubernetes, Travis CI, Terraform, Git, GitHub, NodeJS, React, Angular, Express, MongoDB, Socket.IO, SQL, NoSQL, jQuery, Bootstrap, Agile, Kanban, Linux, Heroku, WordPress, Apache, FileZilla

**Interests:** Traveling to foreign countries; Cooking new foods; Setting personal records in weightlifting; Playing and teaching piano.

## LEADERSHIP & ACTIVITIES

### Sigma Sites Web Consulting

*Founder*

**Oyster Bay, NY**

*May 2019 – Present*

- Fostered successful business relationships with 2 business owners by inquiring about affordable website redesigns.
- Completed websites receive 4,000 monthly or 50,000 views every year, an increase of 60% after website revamp.

### HackRPI

*Director of Technology*

**Troy, NY**

*March 2019 – Present*

- Developed a dashboard using NodeJS and Socket.IO to send live messages and alerts for more than 20 sponsors.
- Remodeled website to include a dynamic and responsive user interface allowing for ease of use.

### Sigma Alpha Epsilon Fraternity, NY Epsilon Chapter

*Treasurer*

**Troy, NY**

*January 2020 - Present*

- Actively manage a budget of \$220,000 to allocate to a roster of 35 members and the alumni association.
- Attend executive committee and alumni board meetings to provide updates and opportunities surrounding finances.