

# Joshua Brown

[josh9051@gmail.com](mailto:josh9051@gmail.com) · [joshbrown.info](http://joshbrown.info) ·  JBis9051

## Work Experience

*(concurrent with High School Studies)*

---

**NYAAFF** • February 2020 - Current

*Web Developer*

- Designed and developed a website for an advocacy organization
- Created a custom static site generator to transform data and templates into HTML

**Tamarack Tower** • November 2019 - Current

*Web Developer and Server Administrator*

- Designed and developed webpages to enable the online purchasing of event tickets and membership subscriptions
- Created a custom PayPal payment API wrapper to simplify donors' transactions
- Set up and managed a Google Cloud Compute VM instance to host the website and to store donor data
- Managed MySQL databases containing donor information

**MacAndrews & Forbes Incorporated** • July 2018 - August 2018

*Cyber Security Technician Intern*

- Created and managed AWS Ubuntu and Windows instances
- Configured network security rules and identified irregularities using Sophos Central, and then worked with my team to mitigate
- Reviewed network logs and generated user activity reports using Palo Alto Networks Console

**Port Chester - Rye Brook Public Library** • March 2018 - Current

*Web Developer and Server Administrator*

- Developed webpages to facilitate donations and designed a database to store donors' form data
- Integrated the PayPal payment API to accept debit/credit cards, bank accounts, and PayPal accounts
- Set up and managed Google Cloud Compute VM instance to host the webpages and to generate donor data reports
- Identified critical security concerns, e.g. integrating SSL/TLS certificates and auto-renewal scripts, and led a team mitigation effort

## Projects

---

**BitLink** • April 2020

- Developed an open source and completely free video conference web application during the COVID-19 pandemic to help people stay connected
- Implemented a logging program to detect and fix issues while maintaining user data privacy

**StackOverflow Chat Bot** • May 2019

- Created a chat bot for communication in and administration of the StackOverflow JavaScript chat room
- Integrated a three tier security method of executing and evaluating untrusted user inputted code on a server
- Built a plugin API to enable additions by other developers
- Documented the unofficial StackOverflow chat API to allow other developers to create their own bots

## Skills

- 
- |               |                                |                                                    |
|---------------|--------------------------------|----------------------------------------------------|
| • Node.js     | • PHP                          | • Linux server administration                      |
| • HTML/CSS/JS | • Database (MySQL, PostgreSQL) | • Microsoft Excel                                  |
| • React/MobX  | • AWS and GCE VM management    | • Adobe Photoshop, After Effects, and Premiere Pro |
| • jQuery      |                                |                                                    |

## Education

---

**Blind Brook High School** • Class of 2021

- **Completed:** AP Computer Science, Honors Engineering, Engineering, AP Computer Science Principals (Self Taught), Robotics

**Purdue University** • July 2019

- Introduction To Systems Development (CNIT 18000)

---

References available upon request