


Joshua Brown

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Work Experience

(concurrent with High School Studies)

CMIT Solutions · July 2020 - August 2020

IT Security Intern

- Recommended to client, who suffered recent phishing incident, various cybersecurity solutions
- Reviewed and evaluated client needs and developed projection of costs to implement a corrective project
- Designed Excel matrix using pivot tables with advanced filter functionality to organize and compare products and service offerings

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 web pages to enable the online purchase of event tickets and membership subscriptions
- Created a custom PayPal payment API wrapper to simplify donors' transactions
- Constructed 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

Cybersecurity 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 web pages 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 a Google Cloud Compute VM instance to host the web pages 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 - Current

- Developed an open source and free video conference web application during the COVID-19 pandemic to help people stay connected
- Employed machine learning to implement live background replacement and background blur to protect users' privacy

StackOverflow Chat Bot · May 2019 - Current

- Created a platform agnostic 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

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

Education

Blind Brook High School · Class of 2021

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

Purdue University · Summer Session 2019

- Introduction To Systems Development (CNIT 18000)
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