

# Nolan Ley Custodio

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Website: [nolancustodio.xyz](http://nolancustodio.xyz)

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## SKILLS

Scripting: Python, PHP, HTML/CSS/Javascript, BASH

Operating Systems: Windows 10, Linux (Ubuntu, Alpine)

Technologies: Git, MySQL, SQL, AMQP, RabbitMQ, Trello, Cron, Bootstrap, MVC, Docker, ReactJS, Nginx, Express, Cloudflare

Hosting: AWS (Elastic Beanstalk, EC2) & DigitalOcean (Droplet)

## EDUCATION

New Jersey Institute of Technology (NJIT)

Jan 2018 - May 2021

Bachelor of Science - Information Technology

## EXPERIENCE

NJIT, Ying Wu College of Computing — *Adjunct Professor(Ending Position)*

September 2019 - December 20, 2021

- Introduced basic programming concepts through Python
- Graded and reviewed assignments to over 25 students every semester
- Gave supplementary lectures/lessons to students every week

## PROJECTS

Portfolio/Personal Website - [Static Website Hosted on the Cloud - Winter 2023](#)

- [Link to the website](#), this is the same link as above
- Docker containers for a React front-end and an Nginx web server proxy
- Docker-Compose used to handle creation usage of containers
- Docker Network is used to communicate within the machine
- Nginx handles all incoming TCP requests and gets files from React
- Cloudflare is used to secure the connection and provides an SSL Certification

## Synchat - [MERN Stack Application - Ongoing](#)

Building a Web Application with group chat and scheduling.

- Uses Docker to create micro-services
- Currently implementing RabbitMQ as a way to send data between containers
- React is being used for the front-end to dynamically display chats between users
- Nginx will be the web server and I would like to implement load balancing
- A MySQL database will be used to save user information

## Back End Developer - [Systems Integration Project - Fall 2020](#)

A group project which involved obtaining data through a news API, using multiple virtual machines that used RabbitMQ to communicate on a virtual LAN, and providing a dynamic front-end to each user.

- Virtualbox was used to create virtual machines for each microservice
- The VMs all used Ubuntu and LAMP was the tech stack that we used
- Linux tools such as systemd, cronjobs, systemctl, iptables, and more were used to secure, facilitate, and automate
- We had an ssl certificate for Apache
- MySQL database formation and data backup was scripted using BASH
- Created an MVC from scratch for this project to handle navigation and page data
- PHP was used throughout the project as the main language
- RabbitMQ facilitated communication between VMs
- Used a News API to dynamically populate custom homepages for users