

# NICHOLAS BENNET

[hi@nicholasben.net](mailto:hi@nicholasben.net) | [www.nicholasben.net](http://www.nicholasben.net) | [github.com/nicholasbennet](https://github.com/nicholasbennet)

## Languages

Python, JavaScript, HTML,  
CSS, C++, SQL

## EXPERIENCE

### NYU IT

*Cyber Security Engineer/Architect*

**New York, NY**

*Jul 2021 - Present*

- Evaluated 3 Cloud Access Security Brokers to improve security of 107 sanctioned cloud applications.
- Implemented enhanced risk-based network segmentation to remediate 4 existing network vulnerabilities.
- Developed a project plan and architecture to deploy enterprise-wide Privilege Access Management.
- Deploying Network Access Control to control access automatically and dynamically on the NYU network.
- Improved the login process for the Cybersecurity awareness platform from a 3 step to a one click process.
- Tested and onboarded an endpoint security solution for personal devices to be made available to 80,000+ NYU users.
- Aided in developing security standards and patterns for data distribution and cloud services.
- Conducted a POC of SAST/SCA solutions and identified vulnerabilities in existing applications.

*System Administrator and Security Awareness Assistant*

*Nov 2019 – Jul 2021*

- Aided in the development of a Cybersecurity awareness program for the university reducing the security risks to NYU.
- Automated and integrated the Cybersecurity awareness platform Knowbe4 with existing NYU services.
- Deployed phishing training which reduced phishing attack failures by 13.2% within NYU IT.
- Assisted in identifying and resolving 3 identity and security issue with the university Active Directory.

### Solarify India

*Web Developer*

**Bengaluru, India**

*Jan 2019 – May 2019*

- Overhauled the existing website and moved it to a more secure cloud-based hosting reducing the load time by 3 seconds.
- Devised solutions to increase the security and visibility of the WordPress website by using a plugin and WAF.
- Coded an internal Excel sheet using Macros for cost calculations increasing the productivity by 20%.

### Newranium Creatives

*Frontend Web Developer*

**Chennai, India**

*Mar 2017 – Mar 2018*

- Developed websites for 4 small businesses in Chennai city.
- Worked with various frontend technologies like NodeJS, Angular, Ruby on Rails and PHP.
- Deployed the websites on cloud-based services like AWS, Azure, Google Cloud.

## EDUCATION

### New York University

Master of Science, Computer Engineering (3.43/4)  
Volunteering: NYU Robotics Design Team

**May 2021**

New York, NY

### SRM Institute of Science and Technology

Bachelor of Technology, Electronics and Communication Engineering

**May 2018**

Chennai, India

## PROJECTS

### Neural Network Backdoor Removal (Python, TensorFlow, Keras, NumPy)

**Dec 2020**

- Developed multiple methods to clean a poisoned neural network with known and unknown backdoors.
- Scripts were developed using the TensorFlow, Keras, and NumPy libraries to remove known and unknown backdoors from a neural network.

### Video Call with audio and video filters (Python, CV2, PyAudio, NumPy)

**Dec 2020**

- Developed a video call app using the sockets, cv2, PyAudio, NumPy and threading libraries.
- Incorporated additional feature of users being able to add audio and video filters.
- The application connected to a client hosted in the cloud and the GUI was designed using tkinter.

### Gesture Controlled Lock (C++)

**May 2020**

- Designed to identify gestures like up, down, right, and left using only the accelerometer.
- Device would record the sequence of gestures during setup and store it in memory.
- It could then reliably detect the sequence of gestures to unlock the door.

### Recipe Randomizer (Python, ReactJS, NodeJS)

**Apr 2020**

- Developed a python script to scrape listed websites for recipes and store it in a JSON.
- Created a web app using ReactJS which would display these recipes according to category.
- User would select a category they wanted to eat and a random recipe from that category would be displayed.

## SKILLS & INTERESTS

### Other Tools:

Google Cloud, Git, Jira, Linux, Nmap, UNIX, Windows Server, Wireshark, OWASP ZAP, Splunk, MITRE ATT&CK, NIST, CWE, CVSS, CVE, Docker, ServiceNow

### Volunteering:

FIRST Robotics (Judge)