

# NICHOLAS BENNET

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## EDUCATION

### New York University

Master of Science, Computer Engineering (3.37/4)

Relevant Coursework: ML for Cybersecurity, Internet Architecture & Protocol, Data Structures & Algorithms, Real Time Embedded Systems, Computing Systems Architecture, IoT Security and Privacy

May 2021

New York, NY

### SRM Institute of Science and Technology

Bachelor of Technology, Electronics and Communication Engineering

Relevant Coursework: Object Oriented Programming, Elements of Information theory & Coding, Computer Architecture and Organization

May 2018

Chennai, India

## EXPERIENCE

### NYU IT

System Administrator and Security Awareness Assistant

- Automated and integrated the Cybersecurity awareness platform Knowbe4.
- Assisted in revamping the university Active Directory.
- Aided in the development of a Cybersecurity awareness program for the university.

Nov 2019 - Present

New York, NY

### Solarify India

Web Developer

- Overhauled the existing website and moved it to a more secure cloud-based hosting using AWS.
- Devised solutions to increase the security and visibility of the website.
- Coded an internal Excel sheet using Macros for cost calculations.

Jan 2019 – May 2019

Bengaluru, India

### Newranium Creatives

Frontend Web Developer

- Developed websites for multiple clients in Chennai city.
- Worked with various frontend technologies like NodeJS, Angular, JavaScript, CSS/SCSS.
- Deployed the websites on cloud-based services like AWS, Azure, Google Cloud.

Mar 2017 – Mar 2018

Chennai, India

### 42 Labs

Web Developer

- Engineered a web application to handle communications in a Model United Nation.
- Programmed the web application using NodeJS, AngularJS, and MongoDB.
- Deployed and load-balanced the web application using servers provided by the university.

Dec 2015 – Apr 2016

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.
- Created scripts could reliably 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

**Languages/Libraries:** Angular JS, C++, CSS3/SASS, GraphQL, HTML5, JavaScript, jQuery, MATLAB, MongoDB, NodeJS, Python, React JS, SQL, TypeScript

**Other Tools:** AWS, Azure, Docker, Google Cloud, Git, Jira, Linux, UNIX, Windows, TensorFlow, OpenCV

**Volunteering:** FIRST Robotics (Judge), NYU Robotic Design Team