

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, HTML, JavaScript, jQuery, MATLAB, MongoDB, NodeJS, Python, React JS, SQL, TypeScript, Verilog, VHDL

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

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