

# HARRISON NGO

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## EDUCATION

**University at Buffalo, State University at New York**  
Bachelor of Science in Computer Science/ Minor in Mathematics

May 2019

## EMPLOYMENT

**University at Buffalo, Undergraduate Teaching Assistant**, University at Buffalo

Apr. 2017 - May 2019

Teaching assistant for a Python/Scala programming course. Duties include answering questions and helping students with understanding the material.

**HAKS, I.T Intern**, New York, New York

June 2017 - Aug. 2017

Assisted I.T department with their tasks. Duties included troubleshooting desktop problems and finding solutions, desktop support, and excel inventory. Also wrote a javascript program to make custom stamps for engineering department.

## TECHNICAL SKILLS

**PROGRAMMING LANGUAGES:** Java, Python, C++, Javascript, Scala, HTML

**DATABASE LANGUAGES:** MySQL, PostgreSQL

**TECHNOLOGIES:** Django, Flask, Electron, Bootstrap

**PROGRAMMING LIBRARIES:** Scikit Learn, Pandas, NumPy, TensorFlow, React

**OS/PLATFORMS:** Linux

**LANGUAGES:** Cantonese

## PROJECTS

Handwritten-Written Digits and Image Analysis (Python, NumPy, Tensorflow)

Mar. 2019

- Designed a multilayer perceptron to analyze handwritten digits and hand drawn images for a school project
- Implemented a neural network with forward passing using a sigmoid activation function, back propagation, and error analysis on the network
- Included a regularization term on the network to avoid overfitting

ListenUp (Python, Flask, HTML, Heroku)

Feb. 2019

- Discussion board web app that allows users to post arguments and debate on a certain topic. Used Flask framework.
- Designed home page and discussion boards using HTML and CSS.
- Designed back-end to define posts and user models, forms and routes functionality.
- Used Flask SQLAlchemy as the database to hold custom models.
- Deployed on Heroku server

Weather App (Python, Django, HTML, Javascript)

Dec. 2018

- Web app that allows a user to find information about the weather in a desired city. Used Django framework.
- Designed back-end to connect to OpenWeatherAPI to get weather information. Designed forms, models, and views functionality.
- Used MySQL as the database to store recent city searches and it's weather.

Linx (Python, Javascript, HTML, Python Firebase)

May 2017

- Co-founder of Linx. Linx is Chrome extension that helps you learn a new language while watching netflix. Project was awards first place at AngelHack.
- Focused on designing front-end using HTML, Javascript, and CSS. Made dashboard, email template, and displaying language onto Netflix subtitles.