

# 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 Python/Scala programming course. Material included object oriented programming, functional programming, data structures, algorithms, and networking.
- Answered questions about material and assisted in code debugging for homework and semester project.
- Emphasized test driven development concepts to students for semester project.

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

June 2017 - Aug. 2017

- Assisted I.T department with desktop troubleshooting, desktop support, and excel inventory.
- Made custom stamps for engineering department using Adobe Acrobat and custom javascript to make documentation approval process faster.

## TECHNICAL SKILLS

**PROGRAMMING LANGUAGES/SOFTWARE:** (proficient): Java, Python, (familiar): Javascript, HTML, CSS, C++, Scala

**DATABASES:** MySQL, PostgreSQL

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

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

**OS/PLATFORMS:** Linux, MacOS X, Windows

## PROJECTS

**ValidCops (Python, Django, HTML, Bootstrap, Selenium)**

May 2019

- Django web scraping app that allows a user to enter the name of a shoe and get prices from websites like StockX, Stadium Goods, and Flight Club.
- Designed front end with HTML and bootstrap templates.
- Used Selenium to automate browser simulation to get to StockX, Stadium Goods, and Flight Club.
- Used Python BeautifulSoup to parse the HTML after getting to a webpage to obtain price information.

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

Mar. 2019

- Modeled 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 by using Flask framework.
- Composed the home page and discussion boards using pure 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 project 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 its weather data.

**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.
- Connected backend to Python Firebase to allow for creating, reading, updating, or deleting user and word information.