

# HARRISON NGO

✉ harrison.ngo719@gmail.com 🌐 <https://harrisonngo.com> ☎ 9176231683 📍 39-22 58th St Woodside, NY, 11377 🗣 NgoHarrison

## 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, MongoDB

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

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

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

## PROJECTS

JTrack (MongoDB, Flask, Angular, Python, Javascript)

Sept. 2019

- Created single page web app that allows me to keep track of all jobs I apply to. Used Angular as the front end framework. Leveraged Python and Flask as back-end/ RESTful API.
- Integrated MongoDB Atlas as database to store data
- Included chrome extension functionality to allow easy addition of new entries into database.

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 and parsed HTML with price information with Python BeautifulSoup library.

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 using a sigmoid activation function, back propagation, error analysis, and 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. Completed with Flask and deployed on Heroku server.
- Composed the front end using pure HTML and CSS.
- Designed back-end to define posts and user models, forms and routes functionality. Incorporated Flask SQLAlchemy as the database to store all information.

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 awarded 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.