**Harrison Ngo**

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**WORK EXPERIENCE**

**University of Buffalo Apr. 2017 – May 2019**

*Undergraduate Teaching Assistant Buffalo, NY*

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

**HAKS June 2017- August 2017**

*IT Intern New York, NY*

* Assisted IT 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.

**EDUCATION**

**University at Buffalo May 2019**

*Buffalo, NY*

BS in Computer Science with minor in Mathematics.

**Technical Skills**

**Programming Languages:** Proficient in Java, Python. Familiar with Javascript, HTML, C++, Scala.

**Databases:** MySQL, PostgresSQL

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

**Libraries:** React, NumPy, Scikit Learn, Pandas, Tensorflow.

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

**Projects**

*JTrack (MongoDB, Flask, Angular, Python, Javascript)**September 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 scrapping app that allows a user to enter the name of a shoe and get prices from websites like StockX, Stadium Goods, and FlightClub.
* Designed front end with HTML and bootstrap templates.
* Used Selenium to automate browser simulation and parsed HTML using Python BeautifulSoup Library.

*Handwritten Digit and Image Analysis (Python, NumPy, Tensorflow)**March 2019*

* Modeled a multilayer perception to analyze handwritten digits and hand drawn images for a school project.
* Implemented a neural network using sigmoid activation function, back progogation, error analysis, and a regularization term on the network to avoid overfitting.

*ListenUp (Python, Flask, HTML, Heroku Server)**Feb 2019*

* Discussion board web app that allows users to post arguments and debate on a certain topic. Completed with Flash and deployed on Heroku Server.
* Composted 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 a Chrome extension that helps you learn a new language while watching Netflix. Project was awarded first place at AngelHack 2017.
* Focused on designing front end using HTML, Javascript, and CSS. Made dashboard, email template, and displaying translated language onto Netflix subtitles using PhantomJS.
* Connected backend to Python Firebase to allow for creating, reading, updating, or deleting user and word information.