

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 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 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. 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.

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.
- Integrated OpenWeatherAPI to get weather information. Designed backend forms, models, and views functionality. Implemented MySQL database to store 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.