


Harrison Ngo

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PROJECTS

JTrack

MongoDB, Flask, Angular, Python, Javascript

- 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 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

- Django web scrapping app that allows a user to enter the name of a shoe and get prices from 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.

ListenUp

Python, Flask, HTML, Heroku Server

- 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. Implemented log in and sign up functionality using Flask-login.
- Designed back end to define posts and user models, forms and routes functionality, incorporated Flask SQLAlchemy as the database to store all information.

Handwritten Digit and Image Analysis

Python, NumPy, Tensorflow

- 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 propagation, error analysis, and a regularization term on the network to avoid overfitting.

Linx

Python, Javascript, HTML, Python Firebase

- 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. Also used PhantomJS to display translated language onto Netflix subtitles.
- Connected backend to Python Firebase to allow for creating, reading, updating, or deleting user and word information.

EDUCATION

University of Buffalo

May 2019

Buffalo, NY

BS in Computer Science with minor in Mathematics.

Relevant Coursework: Data Structures, Algorithms, Theory of Computation, Operating Systems, Machine Learning, Software Engineering Concepts, Data Models and Query Languages, Survey of Partial Differential Equations.

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.

TECHNICAL SKILLS

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

Databases: MySQL, MongoDB

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

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

OS/Platforms: MacOS X, Linux, Windows