Ian Michael Gomez

https://github.com/imgomez0127

ianm0127@gmail.com

201-741-1988

25 Harrington Street Bergenfield, NJ

Education

Stevens Institute of Technology

B.S., Computer Science - 3.935 *Sept '17 - May '21*

M.S., Machine Learning - 4.0 *Sept '20 - Dec '21*

Honors: Edward A. Stevens Scholorship, Dean's List

Courses: Algorithms, Data Structures, Machine Learning, Natrual Langauge Processing, Statistical Machine Learning, Computer Vision, Deep Learning

Experience

Software Engineering Intern - Google *Jun '21 - Aug '21*

Tensorflow, Pandas, Python, Java

- Implement an end to end machine learning pipeline to extract domain names from phone call transcriptions
- Develop a data pipeline to process millions of URL data samples for model training
- Train a model that extracts domain names from transcriptions with transcription errors
- Model scores a BLEU-4 score of .73 and an accuracy of .43 on test set with transcription errors
- Implement server side code to serve the domain extraction model

Full Stack Software Developer Intern - IBM *Jun '19 - Aug '19*

Ant, Gradle, Python, Java

- Add build resilience features which reduce build pipeline failures by 4%
- Aid in open sourcing 20 packages of Open Liberty
- Add automation tools to open source packages which reduce conversion time by 17%

Course Assistant - Stevens Institute of Technology *Jan '19 - Dec '20*

Scheme, C++, C, OCaml, Python

- Assistant for Discrete Structures/Algorithms/Systems Programming/Concurrent Programming
- Hold labs and office hours where I help with both theoretical and programming problems
- Build test scripts to help validate homework solutions

Programming Projects

DABNet (Personal Project) *Jun '19 - Jan '20*

PyTorch, OpenCV, Python, NumPy

- Develop a reinforcement learning algorithm to learn how to play Dota Underlords
- Use **OpenCV** for image processing and **PyTorch** to build convolutional neural networks for image classification and object detection
- Evalute performance by having a 5 round win streak against random human players in a lobby

Cryptocurrency Predictor (Personal Project) *Feb '18 - Jun '18*

BeautifulSoup4, Tensorflow, Python

- Implement a machine learning pipeline to predict cryptocurrency prices using on information on coinmarketcap
- Measure neural network performance on the Loki cryptocurrency with .002 mean square cross validation error

Programming Skills

Experienced With: Python, Linux, HTML, CSS, JavaScript, C **Familiar with** C++, Java, SQL

Machine Learning: NumPy, PyTorch, Tensorflow, Keras, SciKit-Learn, Matplotlib, Pandas

Full Stack Web Development: Flask, Django, React, Express

Database Technologies: PostgreSQL, MongoDB, SQLite3

Recognition

Won Best Usage of Twilio API at HackTCNJ 2018 - For the project Panic Button

President of the Stevens Chapter of International Computer and Information Honor Society (UPE)