# Ian Michael Gomez

https://github.com/imgomez0127
201-741-1988

ianm0127@gmail.com
25 Harrington Street Bergenfield, NJ

## Education

**Stevens Institute of Technology**                                          *Sept. '17 - December '21*
**B.S.**, Computer Science                                                                        **GPA:** 3.94
**M.S.**, Machine Learning                                                                        **GPA:** 4.0
      **Honors:** Edward A. Stevens Scholorship, Dean's List
      **Courses:** Algorithms, Data Structures, Machine Learning, Natrual Langauge Processing,
          Information Retrieval and NLP, 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
- 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
- Provide aid in grading over 100 students' assignments
- 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
- Able to have a 5 round win streak against random human players in a lobby

**Cryptocurrency Predictor (Personal Project)**                                    *Feb '18 - Jun '18*
*BeautifulSoup4, Tensorflow, Python*
- Create a machine learning pipeline to predict cryptocurrency prices using on information on coinmarketcap
- Create a neural network which has a .002 mean square cross validation error on the Loki cryptocurrency

## 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)