

Frank Palma Gomez

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EDUCATION

- **CUNY Queens College**

B.A. Computer Science and Mathematics

Queens, NY

May 2022 (Expected)

PUBLICATIONS

- **Fry, Souillac, Liebovitch, Coleman, et al., 2021** Societies within peace systems avoid war and build positive intergroup relationships. *Humanities and Social Sciences Communications* 2021

EXPERIENCE

- **Natural Language Processing Research**

Researcher

Queens, NY

Sept 2020 - Present

- Developed and implemented a novel method using **Round Trip Neural Machine Translation** to generate distractors for fill-in-the-black exercises found in English Second Language (ESL) standardized tests.
- In collaboration with Professor Alla Rozovskaya while enrolled in CS84000 at the **CUNY Graduate Center**.

- **Jamii**

Founder / Software Engineer

New York, NY

May 2020 - Aug 2020

- Match making app that allows you to chat with people that your friends match you with. Affiliated with **Mozilla's Builders Incubator**, a highly selective incubator with less than **30 accepted participants** in each cohort.
- Designed and implemented Jamii's chat and matching features using **Flutter** and **Firebase** in under **3 months**. Attracted over **350 users** from colleges and universities in the east coast.

- **Sustainable Peace Project**

Researcher

Queens, NY

Sep 2019 - Present

- Machine learning analysis of ethnographic anthropological data. Applied machine learning techniques to research characteristics that allow nations to be peaceful. Implemented statistical test to demonstrate significance found in degree of peacefulness within nations.
- In collaboration with Dr. Larry S. Liebovitch from CUNY Queens College.

- **Code ReSolve**

Club President

Queens, NY

Jan 2019 - Present

- Host technical workshops aimed for student interested in topics such as React, HTML/CSS, Javascript, and more.
- Increased attendance to **60 participants** through effective social media campaigns despite events being remote.

- **Google Computer Science Summer Institute Extension**

Programmer

Queens, NY

Jul 2018 - Aug 2018

- Intensive 3-week programming institute taught by Google engineers. Gained proficiency in Python, HTML, CSS, Google App Engine and the Bootstrap library.

- **The Cooper Union: Makerspace**

Software Engineer

New York, NY

Jul 2017 - Aug 2017

- Developed and designed **Eye 2020**, low budget tool for visually impaired users to identify obstacles near vicinity.
- Optimized the cost of each unit to less than \$10 using arduinos, and ultra sonic sensors; Gained proficiency in C++ and embedded systems.

PROJECTS

- **Twitter ChatBot:** ChatBot that answers questions from multiple subjects using Twitter and Wolfram Alpha API.
- **MyGrad:** Reverse Automatic differentiation library implemented from scratch using Python.
- **Tweet2Emoji:** Emoji classifier that assigns an appropriate emoji to tweets. Employs a convolutional neural network and GloVe embeddings.

PROGRAMMING SKILLS

- **Languages:** Java, Python, C/C++, Javascript, Dart, R
- **Technologies and Libraries:** Flutter, Firebase, Node.js, Pytorch, Tensorflow, Scikit-learn, Numpy, Google App Engine, L^AT_EX