Giancarlo Sirio

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EDUCATION

Boston University May 2022
Bachelor of Arts in Computer Science
***Selected Coursework*:** Data Structures, Algorithms, Computer Systems, Statistics, Multivariable Calculus, Linear Algebra, Data Science, Probability, Linear Models, Machine Learning, Deep Learning, Computational Audio

SKILLS

***Technical*:** Python (5 years), C, Java, Node.js, R, git, LaTex, TensorFlow, Pytorch, NumPy, React.js, GCP, Docker, GNU/Linux, Kubernetes, Librosa
***Language**:* Fluent in Spanish (Native), Conversational in Italian

EXPERIENCE

Georgia Institute of Technology, S.U.R.E. Summer Researcher May 2021 - July 2021
- Collaborated with researchers to create a system to aid speech pathologists diagnose Autism Spectrum Disorder
- Implemented research papers, read documentation, trained deep learning models, and expanded code base
- Won 1st place for best power-point presentation competing against other student researchers

City of Revere BU SPARK Internship, Undergraduate Programmer January 2021 - April 2021
- Worked under the City of Revere Office of Innovation and Data Management for university credit
- Programmed static and dynamic visualizations for City of Revere using geospatial data with Python
- Leveraged Google Maps API to Geocode city services data and tag with demographics from the U.S. Census

Royal Bank of Canada, QTS Technology Analyst June 2020 - August 2020
- Wrote Python scripts to scrape, process, and display data in order for compliance team to oversee trade halts
- Developed database management application for Data Engineering team with React.js and Django framework

PROJECTS

Deep Learning for Question Detection May 2021 - August 2021
- Developed classifiers to detect when a question was uttered given a noisy audio signal of a spoken conversation
- Trained Recurrent Neural Networks (LSTM, GRU), and Transformer networks on audio and text features
- Conducted experiments with different hyperparameters, feature representations, and modeled results for analysis

COVID-19 Lung X-Ray Classification November 2020 - December 2020
- Constructed multi-class classifiers of X-Ray images taken of lungs infected with COVID-19 or Pneumonia
- Utilized transfer learning with existing CNN architectures to improve accuracy (VGG-16, Inception-V3)
- Visualized final layers of networks using dimensionality reduction techniques (T-SNE)

ACTIVITIES

Alpha Phi Omega Community Service Fraternity, Member September 2021 - May 2022
***First Year Student Outreach Program**, Staff* August 2021
- Led a group of 14 first-year students to conduct community service throughout the Boston area
- Served as a mentor and resource for students to help equip with civic tools of engagement

Boston University CAS On-Campus Internship, CS Ambassador September 2019 - December 2019
- Proposed, coordinated, advertised, and executed regular workshops for undergraduate computer science students

HONORS & AWARDS

Boston University College of Arts and Sciences
Dean's List Fall 2018
Richard D. Cohen Scholarship May 2018
32BJ Training Fund Scholarship June 2018