

YERAY LÓPEZ

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Skills

ENGINEERING:

Python 3
C/C++
Java
Machine Learning
Computer Vision
Data Mining
Deep Learning
Networks
MATLAB
VHDL & ASM
MIPS Architecture
Microcontrollers
(Motorola 68K, PIC, ARM7)
HTML/CSS

TECHNICAL & COMPUTER:

Experienced with
Windows, Mac OS X, UNIX,
Linux, Android, IOS,
Virtual Machine and Cloud
Computing environments
Experienced in computer
building, repair and
maintenance
Developed sense for
effective troubleshooting of
systems

PERSONAL:

Native fluency in both
Spanish and English
Highly detail-focused
Ability to self teach new
skills and concepts
Ability to work with all
resources available in a
creative fashion to solve
problems
Ability to verbally
communicate effectively
with people in and out of
professional settings
Conscious of time and
resources spent on
company projects
Ability to reverse engineer
systems and problems.

Education

Villanova University
Bachelor of Science Computer Engineering 2020
Minor in Computer Science

Employment

Comcast Philadelphia, Pennsylvania
Marketing Intelligence Analyst Intern Summer 2019

- Responsible for designing and creating scaleable and robust data mining tools for social media platforms.
- Performed data analysis using machine learning and natural language processing tools to report back possible marketing decisions to be considered.
- Designed and created a GUI for a more simple and interactive experience.

JD Sound & Video Voorhees, New Jersey
Lead A/V Installation Technician June 2017 to August 2018

- Responsible for company IT and programming matters which included setting up a variety of networks such as gateways, switches, WAPs, VPNs, and controllers.
- Established a communication and documentation platform to improve project management.
- Performed the installation, operation, and repair of Crestron, Extron, QSC, Lutron, and Shure systems.

IATSE 8 Delaware Valley Area
Freelance Audio Engineer (On-Call) Summer 2016 to Summer 2019

- Worked in high profile events such as Metallica, Panic! At The Disco, NBA Draft, & NFL Draft.
- Set up A/V equipment for live events ranging from small live performances to concerts.
- Responsible for setting up audio mixers, DMX lighting, comm systems, and troubleshooting setups.

Concert Quality Sound Egg Harbor City, New Jersey
Shop Manager & Audio Engineer Summer 2016

- Managed daily operations of the entire warehouse and store.
- Responsible for serving customers, supervising inventory control, and delivering rentals.

Projects & Activities

Google Developer Student Club September 2019 to Current

- Selected to be the Google DSC Lead for Villanova University.
- Educating students to learn how to code and it's potential to solve problems within the community.

Villanova University Idea Accelerator August 2017 to Current

- Selected to be an Investment Fellow to help fund Villanova Student startups.
- Run and manage the 3D printing space at Villanova's Entrepreneurship center.
- Built and programmed the network to manage and remotely access 3D printers anywhere on campus.
- Walk-in CAD design to 3D printing is a service offered to make student ideas and designs a reality.

Computer Engineering 2020 Study Group August 2017 to Current

- Mentor and leader for one of the largest engineering study groups on campus.
- Study group consists of 10-15 students peaking at 20.
- Assist fellow engineers with industry insights, projects, events and positions that align with their interests.

Villanova in the Valley January 2019

- Participated in an immersion program in Silicon Valley visiting startups, tech giants, and VC firms.
- Networked with alumni from Villanova to gain a deeper understanding of the valley.

Weill Cornell Medicine | Dalio Institute of Cardiovascular Imaging June 2019 to Current

- Positioned in the engineering sub-team to research the integration between 3D segmented heart models derived from CAT scans and fluoroscopic images.
- Responsible for handling the processing of image data sets and training machine learning model.
- Successfully accelerated the rate of labeling images from transitioning to labeling by hand to utilizing Amazon Web Services and writing scripts that handle hundreds of images.

GPU Tech Conference San Jose hosted by NVIDIA March 2018

- Invited to NVIDIA's premier Artificial Intelligence and Deep Learning conference.
- Performed training and learned to utilize the Jetson Dev Kit and Drive PX autonomous driving system.