

# Daniel Lopez

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## EDUCATION:

**Penn State University** – Erie, PA

Bachelor of Science in Computer Science

Aug 2014 – Apr 2019

## EXPERIENCE:

**Logistics Plus, Inc.**

Apr 2019+

Remote Full Stack Engineer, LPSearch

**Python | Elasticsearch | Docker | React.js | Redis | Nginx**

- Worked iteratively with client to design and develop a corporate search engine solution for a 250M+ yearly revenue company with 500+ employees and a flat organizational hierarchy
- Streamlined the process of discovering internal company capabilities and personnel with a Google-like search experience by consulting with client for their needs and expectations in an Agile workflow
- Integrated with Elasticsearch database for high performance and millisecond text query retrievals
- Used React.js + Redux.js to build a maintainable and extensible UI with an intuitive UX
- Deployed on-site with microservice architecture orchestrated by Docker
- Single-handedly designed, developed and tested the entire production stack remotely

**Penn State University | Concurrent Technology, Inc.**

Sep 2017 – Apr 2018

Project Leader, VideoClassifier

**Python | TensorFlow**

- Designed and developed a video analysis platform fulfilling client's requirements to provide actionable notifications of detected hazardous situations on live surveillance camera footage
- Enthusiastically explored uncharted territory to create a cloud-based system to analyze live video streams, with Amazon and Google releasing their own similar platforms concurrently
- Produced an award-winning documentation poster at Richard J. Fasnmyer design conference
- Coordinated team responsibilities and short-term goals to assure project deadlines were met
- Implemented an LSTM over a CNN to create a neural network for live video classification
- Retrained Google's Inception v3 CNN and LSTM model with 500+ hours of video
- Developed a secure multithreaded web platform for system access and management

**Penn State University | Independent**

May 2018+

Full Stack Developer, TensorExpert

**Python | TensorFlow**

- Created a complete platform providing a simple user interface for experimental neural-network design, creation, and testing with high-flexibility for hyperparameter tuning.
- Deployed a 24/7 agent for time-series data harvesting and RSS news feed collection onto a self-hosted InfluxDB or MongoDB database server.
- Implemented a multithreaded TensorFlow backend to power cloud-based dataset generation and visualization, along with model training and testing accessible from any browser.

**Penn State University | HackPSU**

Nov 2016

Back-End Developer, PACT

**JavaScript | Node.js**

- Cooperated with IBM representatives to utilize the latest IBM Watson services to rank the potential for outdoor activities given current weather conditions and user preferences.
- Built an Alexa skill to interface with the service using AWS server-less lambda functions.
- Granted 1<sup>st</sup> Place by the Optum and IBM Watson representatives

## LANGUAGES & FRAMEWORKS:

<b>Python</b>	<b>C/C++</b>	<b>Docker</b>	<b>JS/Node.js</b>	<b>React + Redux</b>
<b>TensorFlow</b>	<b>Elasticsearch</b>	<b>Redis</b>	<b>InfluxDB</b>	<b>Java/JWS</b>