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 | Redux.js**

- 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. Fasenmyer 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 1st Place by the Optum and IBM Watson representatives

LANGUAGES & FRAMEWORKS:

Python	C/C++	Docker	JS/Node.js	React + Redux
TensorFlow	Elasticsearch	MongoDB	InfluxDB	Java/JWS