

Daniel Lopez

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EDUCATION

PENN STATE UNIVERSITY

BS IN COMPUTER SCIENCE

Expected Jul 2019 | Erie, PA

College of Engineering

MAKERSPACE MENTOR

Fall 2017 | Penn State Behrend

Mentor students with semester-long projects and tools to succeed.

COURSEWORK

UNDERGRADUATE

Cybersecurity Essentials

Cognitive Computing

Quality and Security in Software

Data Structures and Algorithms

Net-Centric Computing

Communication Networks

Statistical Regression Analysis

SKILLS

PROGRAMMING EXPERIENCE

Languages:

- Python • Node.js • JavaScript
- C++/C • Java • HTML/CSS • R

Platforms:

- TensorFlow • Android • MongoDB
- Google Cloud • AWS • IBM Watson

DIGITAL ARTS

Photography Reel

- <http://panacea.dalofeco.com>

Adobe Editing Software

- Photoshop • Illustrator • Premiere Pro
- Lightroom • After Effects

AWARDS

VideoClassifier	Top Poster
2018	Richard J. Fasenmyer
	Design Conference
EZ-Park	GM Challenge
2017	HackPSU Winners
PACT	IBM Watson Challenge
2016	HackPSU Winners
PACT	Optum Challenge
2016	HackPSU Winners

COMPUTER SCIENCE SKILLS

Software Development Essentials

- Understanding of algorithm design and efficiency analysis for quality results.
- Familiar with proper methodologies to execute the software development lifecycle to deliver projects with embedded security and quality.

Machine Learning

- Comfortable with the concepts of deep learning, CNNs, RNNs, and LSTMs for different learning problems, and regression algorithms.
- Familiar with TensorFlow for learning using neural networks.

Software Security and Quality

- Ability to build secure web applications ensuring CIA.
- Comfortable with essential penetration testing tools and common cybersecurity threats for threat analysis and mitigation.

PROJECTS

VIDEOCLASSIFIER | LIVE VIDEO CLASSIFIER USING TENSORFLOW

Python | April 2018

- Utilized an LSTM over a CNN to create a model for live video classification
- Retrained Google's Inception v3 for image classification
- Trained model using 500+ hours of footage
- Developed a secure multithreaded web platform for system management.

CRYPTOEXPERT | SENTIMENT AND DATA ANALYSIS

Python | September 2017+

- Ongoing price and news data harvesting on self-hosted MongoDB database
- Authenticated web interface with session management and user portfolio tracking with graphing support.
- TensorFlow framework for pattern analysis and predictions [In Progress]

ATM.GO | ATM SYSTEM DESIGNED FOR CAPITALONE

Node.js | March 2017

- Android mobile application for user ATM transaction authorization
- Key-based and facial authentication on ATM for transactions

PACT | PEBBLE SMART WATCH APPLICATION

Node.js | November 2016

- Ranked the potential for outdoor activities given weather and user preferences using IBM Watson.
- Natural voice recognition with IBM Watson's Natural Language Classifiers.

ERIEGARBAGE | SECURE GARBAGE SERVICE WEB APPLICATION

PHP | December 2016

- Designed, developed, and deployed web application with security and quality considerations.
- Conducted penetration testing to assure data confidentiality and integrity.
- Performed risk analysis and mitigation techniques to deliver a reliable system.
- Thoroughly tested software for quality or security flaws.