SEBASTIAN PEREZ

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EDUCATION

Northwestern University *Graduated, June 2017*
B.S. in Computer Science, McCormick School of Engineering
Systems and Artificial Intelligence

EXPERIENCE

Denodo July 2017 - Present
Software Engineer *Palo Alto, CA*

· Building application features meant to unify hetergenous and homogenous datasources on the scale of big data

FashionSense January 2017 - May 2017
Lead Software Developer *Evanston, IL*

· Created a startup out of the Northwestern University Garage in order to provide deep learning powered fashion recommendations to the retailer
· Used Selenium to scrape images and assemble a labeled clothing dataset for use in neural net training
· Architected and a production Convolutional Neural Network for fashion-related computer vision
· Created API using Flask and Docker to serve up our models in accordance with restful conventions

Nuance Communication June 2016 - September 2016
Software Developer Intern *Seattle, WA*

· Played an integral role in a ground-up rebuild of the Nuance Developers portal
· Worked on a small agile development team that followed scrum principles
· Used Docker Compose to link Docker containers and build a flexible site based on the Microservices architecture
· Created containerized webapp that used NodeJs along with React and Flux
· Developed containers that used the Python web framework Tornado to create restful APIs that served up database resources

Northwestern University April, 2016 - June, 2016
Research Assistant *Evanston, IL*

· Researched automatic detection of PHP vulnerabilities in WordPress extensions using Static Analysis

PROJECTS

Binary Classifier Convolutional Neural Network

· Using Google's Tensorflow framework architectured a neural network from scratch that can achieve $>$ 90% accuracy in classifying images

Rust Compression Project

· Learned Rust programming language in order to build a fast and memory safe implementation of the Huffman Encoding algorithm capable of compressing and decompressing text files

TECHNICAL

Programming Languages	Python, Javascript, C, C++, Rust, Bash
Frameworks	NumPy, pandas, scikit-learn, Tensorflow, Flask, Node.js, React, Flux
Tools	Git, Jira, Docker

EXTRACURRICULARS

Supplies for Dreams

· Mentoring underpriveledged youth while supplying them with constructive lesson plans and the supplies to carry them out

Peer Tutor

· Created and taught custom study plans to fellow students in need of academic tutoring