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
Programming Languages: Python, Java, C++

EXPERIENCE

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

- Designing, implementing and testing features for Denodo's data virtualization platform
- Developing performant Java code that works intimately with the JDBC API to balance the capabilites of disparate datasources (Spark, Impala, Redshift, MySQL, Presto, etc.)
- Developing features to connect a variety of RESTful webservices using multiple pagination patterns
- Experiencing and learning the language of design patterns first hand

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

- Created a startup out of the Northwestern University Garage in order to provide machine 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

ACCOMPLISHMENTS

Microsoft 2016 Build The Shield Finalist

- Qualification round - worked in a small team to solve capture the flag style challenges. Competed against national pool and qualified for final round.

· Final round - worked in a small team directly competing against other teams in attack and defense style competition.

PROJECTS

Binary Classifier Convolutional Neural Network - `https://github.com/sgp715/binary_classifier_CNN`

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

Simple Image Annotator- `https://github.com/sgp715/simple_image_annotator`

· A image annotator for generating a labeled dataset for CNN training that runs in the browser - focused on easy setup and use

TECHNICAL

Frameworks	NumPy, pandas, scikit-learn, Tensorflow, Flask
Tools	Git, Docker, Maven, Sonar, IntelliJ