

SEBASTIAN PEREZ

Github: sgp715

Palo Alto, CA

(425) · 495 · 9894 ♦ sebastiangabinoperez1995@gmail.com

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 capabilities of disparate datasources (Spark, Impala, Redshift, MySQL, Presto, etc.)
- Adding the ability to connect to Denodo from the Entity Framework ORM
- Developing features to connect a variety of RESTful webservices using multiple pagination patterns

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

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

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

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

TECHNICAL

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