

# SEBASTIAN PEREZ

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## EDUCATION

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### Northwestern University

*Graduated, June 2017*

B.S. in Computer Science, McCormick School of Engineering

Systems and Artificial Intelligence

Programming Languages: Python, Java, C++

## EXPERIENCE

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### 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.)
- Developing features to connect a variety of RESTful webservices using multiple pagination patterns
- Adding support for the returning clause to the Denodo Platform in the server as well as the JDBC client
- Implementing the Denodo Server side of the Postgres message flow protocol for SQL updates allowing us to support the Entity Framework

### 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

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## 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

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**Binary Classifier Convolutional Neural Network** - [https://github.com/sgp715/binary\\_classifier\\_CNN](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

**Simple Image Annotator**- [https://github.com/sgp715/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

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<b>Frameworks</b>	NumPy, pandas, scikit-learn, Tensorflow, Flask
<b>Tools</b>	Git, Docker, Maven, Sonar, IntelliJ