

Jesse Brizzi

Machine Learning | Computer Vision | Full Stack Engineering | Data Science

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EDUCATION

Stony Brook University 2016

Masters **3.96 GPA**

- Computer Science
- CV and ML Specialization

University of South Florida 2014

Bachelor of Science **3.92 GPA**

- Computer Science

SKILLS

Programming Languages: Scala, Python, Java, C++, Matlab, SQL

Deep Learning: MXNet, TensorFlow, Caffe, Keras

Data Science: SK-Learn, Plotly, Pandas, Numpy, Spark, Seaborn

Computer Vision: OpenCV

Infrastructure: Amazon Web Services, Docker, Serverless, Terraform

FELLOWSHIPS

- NSF GRFP Fellow
- W. Burghardt Turner Fellow

BLOG POSTS

[Serving deep learning at Curalate with Apache MXNet, AWS Lambda, and Amazon Elastic Inference](#)

AWS Machine Learning Blog

[How to Setup a Scheduled Scala Spark Job](#)

Curalate Dev Blog

[How Curalate uses MXNet on AWS for some Deep Learning Magic](#)

MXNet Dev Blog

[Mechanical Turk Lessons Learned](#)

Curalate Dev Blog

EXPERIENCE

Curalate Computer Vision/Machine Learning Research Engineer *Jun 16 to Present*

- Backend Scala development for social media SaaS platform. Full AWS/Asgard/Jenkins stack. Finatra/Finagle/Scalatra microservice structure. MySQL/DynamoDB/Redis/Redshift/S3 datastores.
- Designed, built, owned high performance, Scala/C++, computer vision deep learning web services and API's that serve a quarter of a Billion image inference requests per month using Caffe/MXNet/OpenCV.
- Exploratory research and testing into the state-of-the-art computer vision and machine learning algorithms in Python to solve business problems and develop new products.
- Created and managed datasets of proprietary data for use in training deep learning models for social media SaaS specific tasks.

inferdo Founder/Creator *May 19 to Present*

A state-of-the-art, performant, scalable, and affordable Computer Vision API

- Developed the inferdo API
 - Creation of trained Computer Vision deep learning models
 - Development of a highly scalable and performant infrastructure to host deep learning model with Python and Serverless.
- Product Management for the API's targeted markets
- Branding, Design, and Web Dev for inferdo

Stony Brook University Research/Teaching Assistant *Aug 14 to May 16*

- Computer Vision and Machine Learning Laboratory.

CAE Industry Co-op/Senior Project *Aug 13 to May 14*

- C++ and Network Dev project focused on high-performance video transmission.

University of South Florida Undergraduate Researcher *Jun 13 to May 14*

- Image Processing Laboratory.

Raytheon Industry Co-op/Senior Project *Jun 13 to May 13*

- Developed an Android application that could assess the vital signs of a human through non-contact means using the stock sensors on an Android smartphone.

SMC Software Junior Software Engineer *Jun 12 to Apr 13*

- ASP.NET development for an online reservation system. Company-wide computer hardware support and repair.

PUBLICATIONS

Automatic expression spotting in videos *Aug 31, 14*
Image and Vision Computing

Optical Flow Based Expression Suppression in Video *Aug 24, 14*
International Conference on Pattern Recognition

TALKS

Choosing a Deep Learning Library: There are a lot of them *Jul 24, 19*
[NYC Ai NextCon 2019](#)

Choosing a Deep Learning Library: There are a lot of them *Mar 06, 19*
[New York Open Statistical Programming Meetup](#)