



Jesse Brizzi

Machine Learning, Computer Vision, Full Stack/Backend Engineering, Data Science

CONTACT

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Residency	U.S Citizen



FELLOWSHIPS

National Science Foundation
GRFP Fellow

Stony Brook University
Turner Fellow

LANGUAGE

SKILL

Scala	●●●●●
Python	●●●●●
C++	●●●●○
Matlab	●●●●○
Java	●●●●○
HTML/CSS/JS	●●●●○
C#	●○○○○

PLATFORMS/LIBRARIES/API's

- Amazon Web Services
- MXNet (Deep Learning)
- Caffé (Deep Learning)
- ScyPy/Scikit (Data Science)
- Pandas/Numpy (Data Science)
- Linux (System Management)
- Git/Github (Version Control)
- OpenCV (Computer Vision)
- Keras (Deep Learning)
- Tensorflow (Deep Learning)
- Docker (System Management)
- Spark (Data Science)

Updated July 2018

INDUSTRY EXPERIENCE

Curalate New York, New York

Research Engineer/Software Engineer June 2016—Current

- Scala development for social media SaaS platform. Full AWS/Asgard/Jenkins stack. Finatra/Finagle/Scalatra microservice structure. MySQL (RDS)/DynamoDB/Redis/Redshift/S3 datastores. AngularJS/Less frontend.
- Designed, built, owned high performance, computer vision deep learning web services and API's that serve north of ten million requests per day using Caffe/MXNet/OpenCV.
- Executed exploratory research and testing into the state-of-the-art computer vision and machine learning models used in the aforementioned services.
- Created and managed datasets of proprietary data for use in training deep learning models for social media SaaS specific tasks.

Stony Brook Computer Vision Lab Stony Brook, New York

Research Assistant May 2015—May 2016

- Research assistant in the Computer Vision and Machine Learning Laboratory

SMC Software Oldsmar, Florida

Junior Software Engineer/Intern May 2012—April 2013

- ASP.NET development for an online reservation System. ASP.NET version 3.0. Company wide computer hardware support and repair.

Raytheon Tampa, Florida

Industry Co-op/Senior Project January 2013—May 2013

- Remote Vital Sign Assessment on Mobile Platforms. Developed an Android application that could assess the vital signs of a human through non contact means using the stock sensors on an Android smart phone.

CAE Tampa, Florida

Industry Co-op/Senior Project August 2013—May 2014

- DoD funded Project under NDA. Main focus in C++ and Network Dev.

EDUCATION

Undergraduate - Bachelors of Science

Name of Institution: University of South Florida **Honors College**
Major: Computer Science **Major GPA:** 3.86 **Grad Date:** May 2014

Graduate - Masters

Name of Institution: Stony Brook University
Major: Computer Science **Major GPA:** 3.96 **Grad Date:** May 2016
Specialty: Computer Vision, Machine Learning, Data Science

PUBLICATIONS

- Automatic expression spotting in videos, M Shreve, **J Brizzi**, S Fefilyatov, T Luev, D Goldgof, S Sarkar. Image and Vision Computing 32 (8), 476-486
- Optical Flow Based Expression Suppression in Video, **J Brizzi**, D Goldgof, S Sarkar, M Shreve. Pattern Recognition (ICPR), 2014 22nd International Conference on, 1817-1821