

LocationNew York City

Websitejessebrizzi.com

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CitizenshipUS Citizen

EDUCATION

Stony Brook University

Masters3.96 GPA

• Computer Science

• CV and ML Specialization

University of South Florida

Bachelor of Science3.92 GPA

• Computer Science

FELLOWSHIPS

- NSF GRFP Fellow

• W. Burghardt Turner Fellow

PUBLICATIONS

Automatic expression spotting in videos

Aug, 14

Image and Vision Computing

Optical Flow Based Expression Suppression in Video

Aug, 14

International Conference on Pattern Recognition

SKILLS

Programming Languages

Python, SQL, Scala, Java, C++

ML & Computer Vision

Computer Vision: Object Detection, Image Classification

ML Operations: Model Deployment, Experiment Tracking, Training Pipelines

Neural Networks: CNN, Feature Extraction, Embeddings

Cloud & Infrastructure

AWS/GCS

Distributed Systems

Microservices Architecture

Serverless Computing

Dev Practices

System Design

API Development

Production Monitoring

Performance Optimization

Last Updated: December 2024

Two Sigma

Vice President Software Engineer

July 22 - Now

**Machine Learning Software Engineer embedded in a Quantitative Trading Org**

• enabling research at scale and productionizing live trading models.

Led multiple high-impact initiatives focused on ML research tooling and model productionization

• Designed and implemented an enterprise template system for ML model productionization that has been adopted for over 50% of all production models in a major business unit, significantly reducing deployment costs and accelerating time to market by several weeks

• Architected and delivered automated research pipeline solutions supporting parallel model training, modernizing research workflows and enabling rapid experimentation at scale

• Spearheaded operational integrity improvements for critical ML systems generating significant revenue, including modernizing libraries and implementing enhanced compliance controls

Led evaluation of enterprise ML experiment tracking solutions, conducting analysis of SaaS and on-premise options while coordinating with security, infrastructure, and business stakeholders

Technical Leadership & Community Impact:

• Serve as trusted reviewer for production trading model deployments

• Mentor junior engineers and lead engineering best practices initiatives

• Tech Lead for diversity-focused college mentorship program

• Lead contributor to engineering interview preparation resources and documentation

Meta

Senior Machine Learning Software Engineer

Mar 20 - Jun 22

**Tech Lead driving high-impact search products through XFN collaboration and team building**

Shipped Instagram Shopping Visual Search, founding member of a 0 - 1 project

• Designed and implemented backend visual search platform, indexing and retrieval for approximate nearest neighbor search of product corpus on internal search infrastructure.

• Drove successful collaboration, adoption and standardization with partner XFN teams.

• Coordinated with research teams to productionize state-of-the-art deep learning models for object detection, image embedding, classification, and feature extraction.

Shipped Instagram Shop Tab Typeahead, founding member of a 0 - 1 project.

• Designed and implemented backend for typeahead suggestions across all storefronts.

• Ensured best practices for monitoring, scaling, and maintaining services at Meta's size/scale.

• Achieved top interviewer status within organization

• Mentored engineers on SQL optimization, data pipeline development, and system design

• Led onboarding programs for new team members

inferdo

Founder

May 19 - Mar 20

A performant, scalable, and affordable Computer Vision API

• Lead/Designed/Developed the Inferdo platform and API

• Product Management for the API's targeted applications and markets

• Company branding, design, and web dev

Curalate

Machine Learning Research Engineer

Jun 16 - Jan 20

Architected and deployed high-performance Computer Vision and Recommendation services in Scala/C++, processing 500M+ monthly requests using Caffe/MXNet.

• Backend Scala development for social media SaaS platform. AWS microservice stack.

• Researched and released production computer vision classification and detection models.

• Created and managed proprietary datasets for use in training deep learning models

CAE

Industry Co-op

Aug 13 - May 14

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

Raytheon

Industry Co-op

Jan 13 - May 13

• Developed an Android application to assess human vital signs through non-contact means.

SMC Software

Junior Software Engineer

Jun 12 - Apr 13

• ASP.NET development for an online reservation System.