Kevin Dela Rosa kevd1337@gmail.com

EDUCATION

• Carnegie Mellon University

Master of Computer Science in Language Technologies

Pittsburgh, PA August 2011

University of Texas at Arlington

Bachelor of Science in Software Engineering & Physics (double major)

Arlington, TX May 2009

Work Experience

• Snap, Inc. (formerly Snapchat)

Seattle, WA

Machine Learning Engineer, Tech Lead / Manager

June 2016 - Present

- o Driving the technical roadmaps of projects involving large scale multimedia retrieval, content understanding, NLP & computer vision; managing engineers, and providing technical guidance to partner teams
- Authored algorithmic & infrastructure improvements to content based information retrieval systems powering scan image search & other related use cases; decreased index training time by 95%, expanded search capabilities by 100x
- Authored infrastructure for large scale approximate neighbor search, content understanding & dataset collection
- o Contributed multiple computer vision models powering lens recommendations (scene classifier, sky segmentation, hand detection); improved average precision of logo detection models used at Snap by 54%
- Launched scan module in lens studio which allows users to scan objects, places, cars and dogs in the world with a massive database of item labels within community created Snapchat augmented reality experiences / lensess
- Launched numerous high profile scan camera integrations with partners like Coca-cola, McDonald's, NBA, United Nations, Louis Vuitton, Too Faced Cosmetics, L.A. Rams, TurboVote, Ralph Lauren, Cheetos, Art Basel
- o Contributed to backend and iOS / Android apps for context cards, widgets, search, chat, notifications & friending

Amazon.com, Inc.

Seattle, WA

Software Development Engineer II

Sept 2011 - June 2016

- Developed software for product de-duplication system that continuously improves Amazon.com catalog quality
- o Contributed catalog validation logic & matching criteria; launched over 30 new Amazon.com product categories

• Carnegie Mellon University

Pittsburgh, PA

Graduate Research Assistant

Jan 2010 - August 2011

- Conducted research in natural language processing & educational computing applications; resulted in 8 publications
- Space and Naval Warfare Systems Command (SPAWAR)

San Diego, CA

Naval Research Enterprise Intern

May 2009 - Aug 2009

• Designed experiments & developed text classifiers for use on military chat posts. Results published in ICMLA

Select Talks & Publications (3 industry talks, 12 academic papers, 420+ citations)

• Open-Vocabulary Object Detection Using Captions

A Zareian, K Dela Rosa, DH Hu, SF Chang

CVPR 2021

Kubecon

2020

• MLOps at Snapchat: Continuous Machine Learning with Kubeflow & Spinnaker K Dela Rosa

AWS re:Invent

• Build accurate training datasets with Amazon SageMaker Ground Truth V Madan, K Dela Rosa

2019

 Adding intelligence to your JS applications K Dela Rosa

CascadiaJS

- Self-assessment in the REAP tutor: knowledge, interest, motivation, & learning Journal of AI in Education K Dela Rosa, M Eskenazi
- Topical Clustering of Tweets

ACM SIGIR Workshop on Social Web & Mining

K Dela Rosa, R Shah, B Lin, A Gershman, R Frederking

• The advection of supergranules by the Sun's axisymmetric flows DH Hathaway, PE Williams, K Dela Rosa, M Cuntz

Astrophysical Journal 2010

 Text classification methodologies applied to micro-text in military chat K Dela Rosa, J Ellen

ICMLA 2009

SKILLS & TECHNOLOGIES

• Coding: Python, Java, JavaScript, Go

Big Data: Apache Spark, Airflow, Beam

Cloud: AWS, Google Cloud, Docker, Kubernetes

• Machine Learning: TensorFlow, PyTorch, Kubeflow