

EDUCATION

- **Carnegie Mellon University** Pittsburgh, PA
Master of Computer Science in Language Technologies August 2011
- **University of Texas at Arlington** Arlington, TX
Bachelor of Software Engineering & Physics (double major) May 2009

WORK EXPERIENCE

- **Snap, Inc.** Seattle, WA
Machine Learning Engineer, previously Software Engineer (Core Engineering) June 2016 - Present
 - Driving the technical road maps of multiple projects involving large scale multimedia search and computer vision at Snap; leading projects, mentoring engineers, and providing technical guidance to sales/creative teams
 - Authored architectural & algorithmic improvements to content based information retrieval systems powering marker lens search & other related use cases; decreased index training time by 95%, expanded search capabilities by 100x
 - Launched numerous high profile scan camera integrations with partners like Coca-cola, McDonald's, United Nations / World Health Organization, Louis Vuitton, Too Faced Cosmetics & Los Angeles Rams
 - Primary contributor of multiple deep learning models powering lens recommendations (scene tagging, sky segmentation, hand detection); improved average precision of logo detector models used at Snap by 54%
 - 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
 - Led development of a product de-duplication system that continuously improves Amazon.com catalog quality
 - 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 (12 PAPERS, 350+ CITATIONS)

- **MLOps at Snapchat: Continuous Machine Learning with Kubeflow & Spinnaker** Kubecon
K Dela Rosa 2020
- **Build accurate training datasets with Amazon SageMaker Ground Truth** AWS re:Invent
V Madan, K Dela Rosa 2019
- **Adding intelligence to your JS applications** CascadiaJS
K Dela Rosa 2015
- **Topical Clustering of Tweets** ACM SIGIR Workshop on Social Web & Mining
K Dela Rosa, R Shah, B Lin, A Gershman, R Frederking 2011
- **The advection of supergranules by the Sun's axisymmetric flows** Astrophysical Journal
DH Hathaway, PE Williams, K Dela Rosa, M Cuntz 2010
- **Text classification methodologies applied to micro-text in military chat** ICMLA
K Dela Rosa, J Ellen 2009

RECENT ACTIVITIES

- **Capture the Flag** DEFCON 26
Competed solo in Def Con AI Village's inaugural capture the flag contest, placed 3rd 2018
- **Scientific Committee Member** Language Resources and Evaluation Conference
Member of scientific committee, reviewed paper submissions 2014, 2016, 2018

SKILLS & TECHNOLOGIES

- **Coding:** Python, Java, JavaScript, Go
- **Infrastructure:** AWS, Google Cloud, Docker, Kubernetes
- **Machine Learning:** TensorFlow, PyTorch, Kubeflow
- **Big Data:** Apache Spark, Airflow, Beam