ALEN LUKIC

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Education	Carnegie Mellon University	Pittsburgh, PA
	M.S., Computer Science	Aug 2013 - Aug 2014
	Rice University	Houston, TX
	B.S., Computer Science	Aug 2009 - May 2013

Experience

Expect Labs San Francisco, CA
Software Engineer Sep 2015 - Present
- Feature engineering and model optimization for document retrieval and ranking in voice search applications.

Twitter San Francisco, CA
Software Engineer Aug 2014 - Sep 2015
- Optimization of Scalding jobs for processing experiment metrics and metadata, resulting in a 45% end-to-end pipeline speedup.
- Standardization of incorporating metrics into the experimentation framework, leading to a 70% reduction in development time.
- Implementation and testing of statistical analysis functionality, including confidence intervals, significance tests, and statistical power.

Carnegie Mellon University Pittsburgh, PA
Graduate Research Assistant Aug 2013 - Aug 2014
- Scraped and processed web data which yielded over 763,000 distinct song lyrics, the largest and most general such corpus recorded in academic literature. Applied various topic modeling algorithms to the data in order to compare the quality of the generated topics.
- Improved an existing question-answering system designed to answer multiple choice questions based on journal papers about Alzheimer's disease. Achieved a 15% relative accuracy increase over the published system.
- Conducted a literature survey on relation extraction and investigated its incorporation in parameterizable, weakly-supervised active learning systems.

IBM Austin, TX
Software Engineer Jun 2012 - Aug 2014
- Data mining and development of machine learning and natural language processing software pipelines for Watson-enabled client solutions.
- Developed an SVM-based ranking system which was incorporated in the Watson-enabled Oncology Engagement Advisor (OEA) system piloted by IBM in collaboration with M.D. Anderson Cancer Center.

Skills

Technical
Scala, Scalding, Python, Java, MATLAB, Unix Shell, LaTeX
Scikit-Learn, Weka, NLTK, Hadoop, Elasticsearch
IntelliJ IDEA, Eclipse, Git, Linux, Mac OS, Scrum, JIRA, Pivotal, Trello

Theoretical
Machine Learning, Natural Language Processing, Information Retrieval, Linear Algebra, Statistics, Data Structures & Algorithms, Software Architecture