

## Contact

[www.linkedin.com/in/deniskamotsky](https://www.linkedin.com/in/deniskamotsky) (LinkedIn)

## Top Skills

Python (Programming Language)  
Natural Language Processing (NLP)  
Search Relevance

## Languages

Russian (Native or Bilingual)

## Patents

System and method for performing a multiple pass search  
Method for calculating relevancy scores of search results  
System and method for performing a pattern matching search  
Systems and methods for calculating recommendation scores based on combined signals from multiple recommendation systems  
System and method for performing a multiple pass search

# Denis Kamotsky

Principal Software Engineer | Advanced Analytics at Corning Incorporated  
Santa Fe, New Mexico, United States

## Summary

Over 20 years of professional experience in software architecture, design, development, and support. Specializing in E-Commerce, Information Retrieval, and Machine Learning applications.

Proven engineering thought leader at macys\*com, the largest online fashion retailer in the United States, and #14 online retailer globally. Delivered countless projects, contributing to the online sales growth from \$200M in 2001 to nearly \$6B in 2019. Arrived in e-commerce from the background in computational linguistics research. Architected, designed, and built macys\*com's Keyword Search and Product Discovery platforms. Implemented original engineering solutions covered by multiple U.S. patents. In the last four years delivered value by applying machine learning to e-commerce, primarily focusing on natural language processing, computer vision, and recommendation systems. Played all SDLC roles over the 19 years career at macys\*com: hands-on developer (Java, Python), data scientist, technical lead, onshore/offshore delivery lead, software architect, domain architect, product manager.

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## Experience

### Corning Incorporated

Principal Software Engineer | Advanced Analytics | Emerging Technologies

June 2020 - Present (2 years 11 months)

Santa Fe, New Mexico, United States

Helping researchers, data scientists, and technologists build and scale cloud-enabled machine learning pipelines. Promoting modern software development practices in the world of advanced analytics. Databricks, PySpark, Dask, Tensorflow, Kubernetes, AWS.

### Macy's

Principal Engineer

January 2001 - March 2020 (19 years 3 months)

San Francisco Bay Area

Proven engineering thought leader at macys\*com, the largest online fashion retailer in the United States, and #14 online retailer globally. Delivered countless projects, contributing to the online sales growth from \$200M in 2001 to nearly \$6B in 2019. Arrived in e-commerce from the background in computational linguistics research. Architected, designed, and built macys\*com's Keyword Search and Product Discovery platforms. Implemented original engineering solutions covered by multiple U.S. patents. In the last four years delivered value by applying machine learning to e-commerce, primarily focusing on natural language processing, computer vision, and recommendation systems. Played all SDLC roles over the 19 years career at macys\*com: hands-on developer (Java, Python), data scientist, technical lead, onshore/offshore delivery lead, software architect, domain architect, product manager.

New Mexico State University

Research Assistant

October 1997 - January 2001 (3 years 4 months)

Las Cruces, New Mexico Area

Supported leading scientists in the field of Computational Linguistics to help build innovative (at the time ) machine translation and natural language processing systems for DARPA.

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## Education

South Ural State University (SUSU)

Diplom (Master's), Applied Mathematics · (1993 - 1998)