

Contact

www.linkedin.com/in/alekseyev
(LinkedIn)
dnquark.com (Personal)

Top Skills

Matlab
HBase
Mathematica

Languages

English (Native or Bilingual)
Russian (Native or Bilingual)

Certifications

Programming Languages
Functional Programming Principles
in Scala
Probabilistic Graphical Models
Introduction to Mathematical
Thinking
Deep Learning Specialization

Patents

Neural network classifiers for
blockchain data structures
Secure messaging in a machine
learning blockchain network
Establishing a trained machine
learning classifier in a blockchain
network
Machine data-derived key
performance indicators with per-
entity states

Leonid Alekseyev

Principal Software Engineer at LedgerDomain
San Francisco, California, United States

Summary

Software engineer with extensive background in big data, numerical computing, and web technologies. Passionate about applying modern machine learning, AI, and data engineering methods to important and interesting problems. Love exercising my strong applied math background, but never shy away from coding business logic, developing infrastructure, or ops and deployment.

Past interests include theoretical nano-optics research (including numerical analysis and simulations in Python, Matlab, Mathematica), quantitative finance (R, C++), large-scale data mining (Hadoop ecosystem), and online education.

Experience

LedgerDomain
Principal Software Engineer
September 2018 - Present (6 years)

LedgerDomain is an enterprise blockchain company working to bring fast, personalized, and secure transactions to the pharmaceutical supply chain. Our technology drives powerful mobile applications and executive dashboards that help deliver the right medications to the patients who need them.

EdCast Inc
Machine Learning Engineer
2016 - 2018 (2 years)
[Mountain View](#)

Building infrastructure and algorithms to make learning, development, knowledge management, and content discovery more engaging, targeted, and effective than ever before.

Splunk
Software Engineer
2012 - 2016 (4 years)

Developed infrastructure and microservices monitoring applications for the Splunk Enterprise platform. Wrote data collectors (Python), created analytics dashboards and workflows (Backbone, d3.js), implemented and validated anomaly detection / adaptive thresholding algorithms (NumPy, R).

ImageShack Corp.

Data Mining and Analytics Engineer

September 2009 - 2011 (2 years)

Studied and optimized data access patterns for an ultra-high traffic media hosting startup. Performed analytics on terabyte-scale datasets using Hadoop and Hive.

Purdue University

Visiting research scholar

2007 - 2011 (4 years)

West Lafayette, IN

Investigated theory and realization of strongly anisotropic metamaterials, with the emphasis on slow light and super-resolution devices in mid-IR.

Merrill Lynch

Summer Associate, Quantitative Statistical Arbitrage

June 2008 - August 2008 (3 months)

Optimized high-frequency volatility arbitrage trading strategy. Filtered and analyzed tick-level market data, developed and validated statistical models using Perl and R.

Education

Princeton University

Ph.D., Electrical Engineering (Optical Physics) · (2004 - 2011)

Stanford University

MS, Electrical Engineering · (2002 - 2003)

Stanford University

BS, Physics · (1998 - 2002)