Kevin Lyons

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EDUCATION

UNIVERSITY OF ROCHESTER
PhD in Physics
Spring 2017 | Rochester, NY
MS in Physics
Spring 2014 | Rochester, NY

STONY BROOK UNIVERSITY
BS in Physics
BS in Astronomy
Spring 2008 | Stony Brook, NY

SKILLS

PROGRAMMING
Python • SQL • Mathematica
Previously used:
Go • Rust • C++ • Javascript
Machine learning:
PyTorch • OpenAI Gym • Python scientific stack

DEVOPS TOOLS
AWS • Docker • Kubernetes
CICD pipelines • Git • Linux
Databases:
Postgres • MySQL • Elasticsearch
Redis • ArangoDB

EXPERIENCE

RHO AI | Senior Data Scientist
2017 - Present

- Successfully implemented many machine learning algorithms in production systems.
  - Used current academic research to create machine learning systems with state of the art performance.
  - Implemented systems to make inferences on natural language, image, graph, and tabular data.
- Led technical development on projects including general software, cloud deployments, and machine learning algorithms.

DRS TECHNOLOGIES | Consulting Scientist
2017 - 2019

- Aided in the design and analysis of integrated (on-chip) optical devices to perform ultra-precise measurements.
- Extended the designs to precision range finding, gravimetry, and inertial navigation.
- Validated analysis with numerical simulations of different chip configurations.

RTI INTERNATIONAL | Consulting Scientist
2012 - 2016

- Performed an intensive technical and financial analysis to aid in the development of a radioisotope production system.
  - Successfully optimized the device and helped verify technical performance with simulations in C++.
  - Combined the technical and financial analysis to demonstrate a lower cost of the final product compared to competing technologies.
- Prepared documents and presentations for venture capital and grant proposals.

LECTURES

COLUMBIA UNIVERSITY | Guest Lecturer
2019-2020

- Two three-hour lectures given in the Spring 2019 semester to both undergraduate and graduate engineering students.
  - Deep learning: an overview of modern state of the art approaches to different supervised learning problems.
  - Reinforcement learning: an introduction to learning how to perform sequential tasks, with an emphasis on physical systems.
  - Natural language processing: Algorithms which can “read” natural language, and create summary or structured data from unstructured text.