Kevin Lyons

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EDUCATION

Massachusetts Institute of Technology   Sept. 2016-June 2021

M.Eng. Computer Science, Artificial Intelligence & Machine Learning (5.0/5.0 GPA)
  - Completed thesis Automated Force-Velocity Profiling of NFL Athletes via High-Frequency Tracking Data

B.S. Computer Science (4.9/5.0 GPA)
  - Relevant coursework: Algorithms, Computational Structures, Elements of Software Construction, Machine Learning, Mathematics for CS, Linear Algebra, Optimization, Comp, CS Systems

PROFESSIONAL EXPERIENCE

DraftKings   *Senior Software Engineer*   July 2021-Present
  - Work on Account Platform Web team, building services for user account management using React, Redux, Node, and TypeScript
  - Supported intergration of third-party bot protection vendor, leading to a 70% reduction in overall web login requests
  - Migrated release strategy to trunk-driven development with automatic deployments via Octo and Bamboo, reducing time to merge less than 1 hour (90% reduction) following all testing
  - Led integration of native web-view standardization initiative, bringing web account experiences to our 2 million unique monthly paying customers in our native apps

MIT Professional Education   *Teaching Assistant*   Dec. 2017-March 2021
  - Managed coursework for professional data science & analytics course with 3,000+ students over 3 years
  - Monitored forum to respond to student questions and troubleshoot technical issues in Python & R

nference   *Software Engineer Intern*   May-Aug. 2019
  - Built internal React web application for manual validation of 100K+ textual records
  - Co-led integration effort with offsite team to connect and migrate 20+ backend MongoDB schemas

Uber   *Software Engineer Intern*   May-Aug. 2018
  - Built distributed data pipelines on PySpark for batch processing of 300K+ driver trip records
  - Integrated with machine learning model that achieved > 0.9 AUC in predicting driver behavior & pricing
  - Updated Cassandra table schemas and Go microservices to fix a bug that affected 50K+ drivers

New England Patriots   *Data Analyst Intern*   Jan.-May 2018
  - Worked with internal personnel to support data-driven analysis efforts

Philips Research North America   *Data Science Intern*   May-Aug 2017
  - Streamlined data from CSV/XML/DICOM image formats to common HDF5 data structure
  - Wrote HDF5 data loader in Python for I/O of 20K+ lung nodule crops with preprocessing abstractions
  - Authored patented ML-based clinician support system in coordination with Mass General Hospital

LEADERSHIP

MIT Sports Summit Leadership Team   Sept. 2019-Feb. 2021
  - Co-led student team responsible for organizing summit with leaders from sports technology industry

Gordon-MIT Engineering Leadership Program   Sept. 2018-Jun. 2020
  - Served as Program Student Leader from January - June 2020, managing 130+ students and 10+ staff

MIT Delta Kappa Epsilon Fraternity   Sept. 2016-Jun. 2020
  - Served as Chapter Vice President, Webmaster and Community Service Chair

MIT Varsity Football   Sept. 2016-Dec. 2019
  - Selected to 2017, 2018, and 2019 NEWMAC Academic All-Conference Teams

MIT Leadership Training Institute   Sept. 2016-May 2019
  - Mentored 20+ Boston-area high school students to create unique and local community initiatives