

# Kevin Lyons

kevinalyons.com

## PROFESSIONAL EXPERIENCE

**DraftKings** *Lead Software Engineer* Jul 2024-Present

- Lead team of 9 engineers working across 5+ Node/TypeScript repositories, deployed via GitOps and Flux
- Lead design and implementation of internal tool using react-router to process 25+ exclusion files/week containing PII
- Lead weekly agile refinement meetings and provide feedback on all technical plans and pull requests
- Lead response for all Production incidents, interfacing with Engineering, Product & Analytics stakeholders
- Support hiring via 30+ technical and object-oriented interviews and 8+ campus events to date

*Senior Software Engineer* Jan 2023-Jul 2024

- Co-led development of Jenkins job to create 15+ new Node microservices, w/ Remix & Fastify templates
- Led development of reusable components and theme on top of internal library w/ Emotion CSS
- Co-led integration of third-party bot protection vendor, tarpitting 70% of login requests at origin

*Software Engineer* Jul 2021-Dec 2023

- Led webview standardization initiative, bringing web login and registration experiences to 2.7+ million unique monthly active users across 10+ iOS and Android apps
- Led migration to trunk-driven development with automatic deployments via Octo and Bamboo, reducing time-to-merge by 90% to <1 hour

*Software Engineer Intern* May-Aug 2020

- Built C# microservice to ingest Zendesk tickets into internal user-level tool receiving 20K+ requests/day
- Built React frontend & C# backend to visualize AD groups & roles for all 4,500+ employees

**ference** *Software Engineer Intern* May-Aug 2019

- Built internal MERN application for manual validation of 100K+ textual records using NLP-powered backend with BERT model
- Led integration effort with offsite team to unify and migrate 20+ backend MongoDB schemas

**Uber** *Software Engineer Intern* May-Aug 2018

- Built distributed data pipelines on Spark 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 in NYC

**New England Patriots** *Data Analyst Intern* Jan-May 2018

- Worked with internal personnel to support data-driven analysis efforts using pandas and scikit-learn

**Philips Research North America** *Data Science Intern* May-Aug 2017

- Streamlined data from CSV/XML/DICOM image formats to common HDF5 data structure
- Wrote Python HDF5 data loader for I/O of 20K+ lung nodule crops with preprocessing abstractions
- Evaluated deep 2D CNNs for multi-label lung nodule classification use case
- Co-authored patented reinforcement-learning-based clinician support system in coordination with MGH

**MIT Professional Education** *Teaching Assistant* Dec 2017-Mar 2021

- Managed coursework for professional data science & analytics course with 3,000+ students over 3+ years
- Responded to student questions and troubleshoot technical issues in Python & R

## EDUCATION

**Massachusetts Institute of Technology** Sep 2020-Jun 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)* Sep 2016-May 2020

- Played 4 years of Varsity Football, led Sports Summit, and led Gordon Engineering Leadership Program