KEVIN LYONS

781.812.5423 | kalyons@mit.edu | kevinalyons.com

EDUCATION

Massachusetts Institute of Technology   Sept. 2016 – June 2020
Candidate for B.S. in Computer Science, Minor in Business Analytics   *Cambridge, MA*
- 4.8 GPA (5.0 scale)
- Relevant coursework: Algorithms, Computational Structures, Elements of Software Construction, Machine Learning, Mathematics for CS, Optimization and Software Engineering Fundamentals

PROFESSIONAL EXPERIENCE

New England Patriots   January 2018 – Present
Data Analyst Intern   *Foxborough, MA*

MIT Professional Education   December 2017 – Present
Teaching Assistant   *Cambridge, MA*
- Coordinate coursework for professional-focused data science and analytics course with 1,000+ students
- Monitor course forum to respond to student questions and troubleshoot technical issues in Python and R
- Assist students with understanding machine learning and data analytics fundamentals

Philips Research North America   May – August 2017
Data Science Intern   *Cambridge, MA*
- 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
- Evaluated deep 2D CNN's for multi-label lung nodule classification use case
- Authored invention disclosure for ML-based clinician support system w/ Mass General Hospital

MIT Media Lab, CityScience Group   Sept. 2016 – August 2017
Research Software Engineer   *Cambridge, MA*
- Assisted Master's Thesis student seeking improved data-driven city space allocation for architects
- Optimized multi-agent Java simulation of 24 hr. real-time to 45 sec. run-time
- Generated train and test sets of 10K+ cities for supervised learning with JSON + Python data pipeline
- Utilized linear regression and shallow CNN for traffic volume and solar radiation predictions

LifeYield   May 2015 – August 2016
Full Stack Software Engineer Intern   *Boston, MA*
- Optimized all web service calls by 40% via improved XML serialization in C# backend
- Wrote and deployed log monitor in C# to connect cloud computing environment with Splunk + SQL

PROJECTS

WildcatConnect iOS App   May 2015 – Present
Co-Founder and Lead Developer   *Weymouth, MA*
- Co-founded productivity app for Weymouth HS, winner of 2016 #1 Senior Project Award
- Integrated push notifications of key events, alerts and custom class groups for students and faculty
- Built on AWS-hosted Express Node.js server with tiered user levels and 2-factor e-mail authentication
- Maintained for 3+ academic years with 8,000+ downloads from https://wildcatconnect.com

LEADERSHIP

MIT Leadership Training Institute   Sept. 2016 – Present
- Mentor Boston-area high school students each spring to create unique & local community initiatives

MIT Varsity Football   Sept. 2016 – Present
- Selected to 2017 NEWMAC Academic All-Conference Team
- Elected to Player's Council twice by members of my class to lead team activities and offseason operations

MIT Student Athlete Advisory Committee   Sept. 2016 – Present
- Serve as liaison between MIT athletes and faculty to execute department-wide fundraisers and events

MIT Delta Kappa Epsilon Fraternity   Sept. 2016 – Present
- Served as house community service chair, coordinating charity basketball tournament and fundraisers

TECHNICAL SKILLS

	Advanced	Proficient	Beginner
Languages	Python, Java, JavaScript	HTML, CSS, C#, Bash	R, Ruby, C, C++
Data/Frameworks	AWS, git, Node.js, JSON, CSV	MongoDB, XML, REST	SQL