

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 Cambridge, MA

- Relevant coursework: Algorithms, Computational Structures, Elements of Software Construction, Machine Learning, Mathematics for CS, Linear Algebra, Optimization, Computational Cognitive Science

PROFESSIONAL EXPERIENCE

Uber Technologies May – August 2018
Software Engineer Intern San Francisco, CA

- 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 and pricing
- Updated Cassandra table schemas and Go microservices to fix a bug that affected 50K+ drivers in NYC

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

MIT Professional Education Dec. 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
- Authored patent-pending ML-based clinician support system in coordination with 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
- 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 AWS-hosted Express Node.js server with tiered user levels and 2-factor e-mail authentication

LEADERSHIP

Gordon-MIT Engineering Leadership Program Sept. 2018 – Present

- Develop leadership, teamwork and communication skills in selective program for engineering undergrads
- Engage in scenario-based practice of professional skills for industry contexts

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
- Serve on Player's Council 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

- Serve as Chapter Vice President; Previously served as house community service coordinator