KEVIN LYONS

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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, Comp. Cognitive Science, CS Systems

PROFESSIONAL EXPERIENCE

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

nference   May – August 2019
Software Engineer Intern   *Cambridge, MA*
- Built internal React web application for manual validation of 100K+ textual records
- Coordinated application feature requests from 6 internal users in 1-month of production testing
- Co-led integration effort with offsite team to connect and migrate 20+ backend MongoDB schemas

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*
- Worked with internal personnel to support data-driven analysis efforts

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 – February 2019
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

LEADERSHIP

Gordon-MIT Engineering Leadership Program   Sept. 2018 – Present
- Develop leadership, teamwork and communication skills in selective program for engineering undergrads
- Lead team of 6 juniors to develop their leadership skills in weekly lab-based setting

MIT Varsity Football   Sept. 2016 – Present
- Selected to 2017 and 2018 NEWMAC Academic All-Conference Teams

MIT Delta Kappa Epsilon Fraternity   Sept. 2016 – Present
- Previously served as Chapter Vice President, Webmaster and Community Service Chair

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