

Present Address

60 Savoy Road
Needham, MA 02492

Skyler Kaufman

781 771 0383
skylerkaufman@gmail.com

Permanent Address

60 Savoy Road
Needham, MA 02492

Education

Massachusetts Institute of Technology, *Cambridge, MA*

Class of 2019

B.S. in Computer Science and Molecular Biology

GPA: 4.7 / 5.0

Coursework: Advanced+CompBio Algs, Machine Learning, Software, Mobile Sensor Computing, Speech Rec

Work Experience & Research

Biomedical Data Scientist with Dr. Tyler Wagner

Sept 2019-March 2021

- ❖ Developed APIs for rapid observational studies in Mayo Clinic's unstructured electronic health records
- ❖ Harmonized longitudinal data into clinically relevant Real World Evidence

Koch Institute for Integrative Cancer Research, *Cambridge, MA*

August 2018-August 2019

Computational Biology Researcher with Dr. Phillip Sharp

- ❖ Studied differential response of PDAC to immunotherapy using PROseq data
- ❖ Created pipelines for processing, analyzing, and graphing experimental output alongside public datasets

Aptiv, *Agoura Hills, CA + Boston, MA*

June-Sep 2018+Jan 2019

Deep Learning Developer for Perception with Izzat Izzat and Narbik Manukian

- ❖ Developed a visualization and annotation tool for generating linked bounding boxes in 2D and 3D space
- ❖ Trained and evaluated tensorflow/pytorch object detection models using only lidar data

Full Stack Developer for DAW and Blockchain with Arjun Mendhi

Sep 2017-Jan 2018

- ❖ Initializing and deploying a custom blockchain for artists' smart contracts
- ❖ Design and implementing a browser-based Digital Audio Workstation with live mixing

Intertrust Technologies, *Sunnyvale, CA*

Aug 2017

Systems Engineer for GeneCloud with Knox Carey

- ❖ Selected and implemented security protocols to thwart re-identification attacks on genomics beacons
- ❖ Compressed encrypted licensing for one-way satellite broadcasting

Massachusetts General Hospital, *Charleston Navy Yard, MA*

May-Sep 2016

Summer Student Researcher in Biomedical Microelectromechanical Systems with Dr. James Fox

- ❖ Quantified cytotoxic effects of endotoxin on megakaryoblasts using multimodal data streams
- ❖ Created a new computational method for recognizing septic shock 48 hours before symptoms

Activities

Volleyball, Middle Blocker

2012-Present

- ❖ Playing for Boston Bounce Volleyball Club and coaching boys beach volleyball with Smash Beach VBC
- ❖ 4-year starting middle 1 and captain on MIT Men's Varsity Team, DIII All-American

Director of the MIT Biotech Group Industry Initiative

Sep 2017-Jan 2019

- ❖ Organize 10 events annually with industry professionals to provide biotech career guidance

MIT Peer Mentor

Sep 2016-Dec 2017

- ❖ Selected from large student pool to tutor Genetics, Intro Biology, Microeconomics