

Present Address

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Skyler Kaufman

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Permanent Address

60 Savoy Road
Needham, MA 02492

Education

Massachusetts Institute of Technology, *Cambridge, MA*

Class of 2019

B.S. Candidate 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

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

August 2018-present

Computational Biology Researcher with Dr. Phillip Sharp

- ❖ Studying differential response of PDAC to immunotherapy using PROseq data
- ❖ Creating pipelines for efficiently processing, analyzing, and graphing experimental output

Aptiv, *Agoura Hills, CA*

June 2018-Feb 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 camera and lidar data

Mtonomy, *Cambridge, MA*

Sep 2017-Jan 2018

Full Stack Developer for DAW and Blockchain with Arjun Mendhi

- ❖ 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

Draper Labs, *Cambridge, MA*

Jan 2017

Algorithms Developer for Cognitive and Behavioral Understanding Group with Joshua Poore

- ❖ Employed Markovian techniques for analyzing sequences of user generated data
- ❖ Suggested UI alterations based off granular analytics to provide a more intuitive interface

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

- ❖ Starting middle 1 and captain on MIT Men's Varsity Team, DIII All-American
- ❖ Captain of Massachusetts high school state championship team and All-Scholastic

Director of the MIT Biotech Group Industry Initiative

Sep 2017-Present

- ❖ Organize 10 events with local industry professionals for biopharma and biotech career guidance

MIT Peer Mentor

Sep 2016-Dec 2017

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