# Ashwin Srinivasan

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## Education

**Carnegie Mellon University** – Bachelor in Computer Science (2022), QPA: 3.56
<u>Relevant coursework:</u> 15-251 Great Ideas in Theoretical Computer Science*, 15-150 Functional Programming*, 15-151 Math Foundations of Computer Science, 15-122 Principles of Imperative Computation

## Skills

<u>Languages:</u> HTML and CSS (8 yrs), Javascript/Node.js (7 yrs), Python (7 yrs), Bash (6 yrs), Java (5 yrs), Swift (1 yr)
<u>Technologies:</u> Git (7 yrs), Linux (7 yrs), React and Vue.js (2 yrs), MongoDB, Redis, and PostgreSQL (2 yrs)

## Projects

**CMULAB: SECURE CHECK-IN AND SCORING**                                                    JAN 2019–PRESENT

Developed Node.js + MongoDB web service for teachers to score class activities. Adopted by 15-122 at CMU.

**FLOW: REAL-TIME WATER CONSUMPTION TRACKER**                                              SEPT 2018

Created Node.js + Redis backend to limit and predict water usage with machine learning algorithm.
★ 2nd place for Riot Games sponsor prize at HackCMU 2018

**MACHINE LEARNING ANALYSIS OF JUDICIAL RECORDS**                                          JULY-AUG 2017

Used SciKit-Learn library and Python web scraper to collect 12 million case records and extract patterns.
Created decision tree and clustering algorithm to predict future case outcomes with 81.4% test accuracy.

**AWESOMEBOT**                                                                             OCT 2015-JAN 2017

Built multi-purpose Node.js bot for managing and entertaining over 10,000 online communities.

**IMGCAP: AUTOMATED IMAGE CAPTIONING**                                                     SEPT 2015-MAR 2016

A computer vision system to generate image captions to aid blind users. Written in Java + OpenCV library.
★ 1st place at PA Junior Academy of Science, 2nd place in math/CS at Pittsburgh Regional Science Fair

## Experience

**RESEARCH INTERN, CUPS LAB, CARNEGIE MELLON UNIVERSITY**                                   JUN 2014-JUN 2015

Design and developed PrivacyTracker, a privacy plugin to increase user awareness of online tracking.
★ 1st place at PA Junior Academy of Science, 3rd place in math/CS at Pittsburgh Regional Science Fair

## Activities

**PLAID UMBRELLA PROJECT**                                                                 SEPT 2018-PRESENT

Developed endtherain.com website and Node.js + MongoDB backend for network of umbrella dispensers.

**THE TARTAN**                                                                             SEPT 2018-PRESENT

Editor for SciTech section and staffwriter. Wrote and edited articles, designed weekly paper layout.

**SCOTTYLABS**                                                                             SEPT 2018-PRESENT

Gave React talk at Web Dev Weekend 2018. Overhauled Python API to make printing accessible on-campus.