



# Ashwin Srinivasan

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## Education

**Carnegie Mellon University** – Bachelor in Computer Science (2022), QPA: 3.56

Relevant coursework: 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

Languages: HTML/CSS + Javascript/Node.js (7 yrs), Python (7 yrs), Bash (6 yrs), Java (5 yrs), C (3 yrs), Swift (1 yr)

Technologies: Git (7 yrs), Linux (7 yrs), React (2 yrs), MongoDB, Redis, and PostgreSQL (2 yrs), Django (1 yr)

## Projects

### ASSURE: CONNECTING NEEDS

FEB 2019

Implemented Node.js + MongoDB + React service to make local donations more accessible and secure.

### CMULAB: SECURE CHECK-IN AND SCORING

JAN 2019-PRESENT

Developing 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

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

### THE TARTAN

SEPT 2018-PRESENT

Editor for SciTech section and staffwriter. Writing and editing articles, designing weekly paper layout.

### SCOTTYLABS

SEPT 2018-PRESENT

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