

Ashwin Srinivasan

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Education

Carnegie Mellon University

BS in Computer Science
May 2022, QPA: 3.56

Relevant coursework:

- 15-210 Parallel and Sequential Data Structures and Algorithms*
- 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

Taylor Allderdice High School

Pittsburgh, PA
May 2018, GPA: 4.0

Skills

Languages:

Javascript, Python, HTML, CSS (7 years), Bash, Java (6 years), C (3 years)

Technologies:

Git, Linux (7 years), React, MongoDB, Redis, PostgreSQL (3 years), Angular, Django (1 year)

Volunteering

East Liberty Presbyterian Church
Tackling food insecurity

Taylor Allderdice High School
Math peer tutoring

Projects

ASSURE: CONNECTING NEEDS

Implemented *Node.js* + *MongoDB* + React service to make local donations more accessible and secure at TartanHacks 2019.

CMULAB: SECURE CHECK-IN AND SCORING

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

FLOW: REAL-TIME WATER CONSUMPTION TRACKER

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

MACHINE LEARNING ANALYSIS OF JUDICIAL RECORDS

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

AWESOMEBOT

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

IMGCAP: AUTOMATED IMAGE CAPTIONING

Generated image captions on-the-fly to aid blind users. Written in *Java* + *OpenCV*.
★ 1st place at PA Junior Academy of Science
★ 2nd place in math/CS at Pittsburgh Regional Science Fair

Experience

SOFTWARE ENGINEERING INTERN, BROADCOM

MAY–PRESENT

Contributing to *Angular* frontend and scalable server testing harness for NetMaster.

RESEARCH INTERN, CARNEGIE MELLON UNIVERSITY

JUN 2014–JUN 2015

Designed and developed 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

GOOGLE TECH CHALLENGE

APR 2019

★ 1st place team overall, including timed coding challenge

PLAID UMBRELLA PROJECT

SEPT 2018–PRESENT

Technical and software lead. Coordinating with electrical and mechanical teams to build umbrella dispenser network, as well as *Node.js* + *MongoDB* backend system.

THE TARTAN

SEPT 2018–PRESENT

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

SCOTTYLABS

SEPT 2018–PRESENT

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