

Ashwin Srinivasan

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Education

Carnegie Mellon University

BS in Computer Science

Minors: human-computer interaction,
software engineering

May 2022, QPA: 3.59

Relevant coursework:

- 15-213 Introduction to Computer Systems*
- 10-315 Introduction to Machine Learning*
- 15-210 Parallel and Sequential Data Structures and Algorithms
- 17-214 Principles of Software Construction
- 15-251 Great Ideas in Theoretical Computer Science

Teaching:

- 15-150 (Spring 2020)
- 15-122 (Fall 2019)

Taylor Allderdice High School

May 2018, GPA: 4.0

Skills

Languages:

Javascript HTML CSS Python

Java Bash C

Technologies:

Git Linux Express Django

React Angular Bootstrap

MongoDB PostgreSQL Redis

Jenkins

Volunteering

East Liberty Presbyterian Church

Tackling food insecurity in low-income regions of Pittsburgh

Allderdice High School

Math peer tutoring

Experience

Research Assistant, Diderot

Sep 2019

Working on learning management system at CMU to make education social and interactive. Developing analytics component with *Python* + *Django*.

Software Engineering Intern, Broadcom

May 2019 – Aug 2019

Contributed to *Angular* frontend, *Kotlin* + *Spring* backend, and *Node.js* scalable server testing harness for the Mainframe Team Center as part of an agile team.

Teaching Assistant, Leap@CMU

Jun 2015 – Aug 2016

Taught local high schoolers computer science in 7-week summer program.

Research Intern, Carnegie Mellon University

Jun 2014 – Jun 2015

Designed and developed plugin to increase user awareness of online tracking.

Projects

CMULab: Secure check-in and scoring

Adopted *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 of *Python* web scraper to collect 12 million case records. Decision tree to predict future outcomes with 81.4% test accuracy.

AwesomeBot

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

ImgCap: Automated image captioning

On-the-fly computer vision system for blind users. Written in *Java* + *OpenCV*.

★ 1st place, PA Junior Academy of Science | 2nd place, Pittsburgh Science Fair

Activities

Google Tech Challenge

Apr 2019

★ 1st place team overall, including timed coding challenges and logic puzzles

Plaid Umbrella Project

Sep 2018 – Sep 2019

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

The Tartan

Sep 2018

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

ScottyLabs

Sep 2018 – Sep 2019

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