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
- 19-101 Introduction to Engineering and Public Policy

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 – Present**
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 Judical 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 – Present**
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.