

Ashwin Srinivasan

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Education

Carnegie Mellon University

BS in Computer Science
Minors: Human-Computer
Interaction, Software
Engineering
May 2022, QPA: 3.5

Relevant coursework:

- 15-210 Parallel and Sequential Data Structures and Algorithms*
- 17-214 Principles of Software Construction*
- 15-251 Great Ideas in Theoretical Computer Science
- 15-150 Functional Programming
- 15-122 Principles of Imperative Computation

Teaching: 15-122 (Fall 2019)

Alderdice High School

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

Alderdice 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 at Pittsburgh Science Fair

Experience

SOFTWARE ENGINEERING INTERN, BROADCOM

May–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 school students 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.

Activities

GOOGLE TECH CHALLENGE

Apr 2019

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

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.