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 and CSS (8 yrs), Javascript/Node.js (7 yrs), Python (7 yrs), Bash (6 yrs), Java (5 yrs), Swift (1 yr)
Technologies: Git (7 yrs), Linux (7 yrs), React and Vue.js (2 yrs), MongoDB, Redis, and PostgreSQL (2 yrs)

Projects

CMULAB: SECURE CHECK-IN AND SCORING – JAN 2019-PRESENT

Developed 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.
★ 2nd place in math/CS at Pittsburgh Regional Science Fair, 1st place at PA Junior Academy of Science

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.
★ 3rd place in math/CS at Pittsburgh Regional Science Fair, 1st place at PA Junior Academy of Science

Activities

PLAID UMBRELLA PROJECT – SEPT 2018-PRESENT

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

THE TARTAN – SEPT 2018-PRESENT

Editor for SciTech section and staffwriter. Wrote and edited articles, designed weekly paper layout.

SCOTTYLABS – SEPT 2018-PRESENT

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