Arvind Venkatesan

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Education

Texas A&M University, College Station, Texas   Expected Graduation: May 2022
Honors Bachelor of Science: Computer Science   **GPA: 3.9/4.0**
Relevant Coursework: Data Structures and Algorithms, Discrete Structures for Computing, Introduction to Programming and Design Concepts in C++, Multivariable Calculus, Udemy Complete Web Developer Course, Udemy Complete IOS Development Course, Linear Algebra

Projects

ClubArchive – Lead Software Developer (Full Stack)   July 2019 - Present
Texas A&M Univerisity

- Developed and led group of 2 other developers to create a third-party website that manages student and faculty lead organizations to allow users to find these organizations with more ease.
- Application was implemented with HTML5, CSS, Javascript NodeJS, ExpressJS, and MongoDB, with Google Cloud for the hosting client. Project is aimed for student body with a scheduled deployment date.
- https://github.com/varvind/Club-Archive, http://www.clubarchive.com/

Research - Autonomous Driving using Reinforcement Learning   June 2019 - Present
Texas A&M University

- Shadowed and assisted with the testing of algorithms that allows test vehicles to run completely autonomously on a track. The algorithms implement deep reinforcement based machine learning to achieve this.
- Attended graduate level courses hosted by the research professor as part of the shadowing apart from the schedule lab times to gain a better understanding of the algorithms implemented in the project.

Robomaster Robotics - Texas A&M Branch – Computer Vision Developer   September 2018 - October 2019
Texas A&M University

- Developed code for robots as part of the computer vision sub team, where the primary goal was to develop fully autonomous code for 5 different types of robots. Primarily focused on implementation of openCV and tensorflow.
- Competed in international competition that was hosted by DJI, where teams around the world com from all over to compete. Five robots that the team built competed in this competition in the summer of 2019 in China.

Maroon Pages – Lead Front End Developer   September 2019
Texas A&M University – Howdy Hack (24hr hackathon)

- Developed a website as part of a 24 hour hackathon that shows current events happening at the University. Allows for users to see and create new events at any given time, while also giving ability to filter search.
- Worked on majority of front end development, while also leading additional developers in the process.
- https://github.com/Jessepy/HowdyHackFall2019

Physics Equations Calculator – **Lead Developer**   August 2017 – December 2017

- Developed and led another developer in the deployment of a physics calculator to help our classmates do homework more effortlessly. Used Swift as the main programming language within the xCode IDE.
- Reached 50 downloads with audience primarily being my peers in class to assist with projects and homework

Skills

Technical: C++, Java, Swift, HTML, CSS, Microsoft Office, Javascript, phpmyadmin(SQL, PHP), NodeJS, ExpressJS, MongoDB, Python, Github, Heroku

Honors/Awards

HTML Level 1 Certification, Engineering Honors, Dean's Honor Roll(Fall 2019), Varsity Tennis Team Captain

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