

Ashvin Nagarajan

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Education:

University of California, Los Angeles (UCLA) 2018 - 2022

B.S., Materials Science and Engineering Cumulative GPA: 4.00 / 4.00

Coursework: Thermodynamics, Multivariable Calculus, Semiconductors, Characterization

Selected Projects:

Booz Allen Hamilton | Product Engineer 2019

- ◆ Developed proprietary data visualization tool for Dockerized environments with Kubernetes
- ◆ Earned 1st Place Overall out of 81 intern teams judged by senior leadership at McLean HQ
- ◆ Provides insight on the health and performance of an A.W.S Cluster in real time
- ◆ Customizable user interface and dashboard tailored to the needs of enterprise clients

Super Mileage Vehicle | Research and Development Lead 2018 – 2019

- ◆ Led a team to develop data acquisition system with React, Firebase, Python, and Arduino
- ◆ Designed a gas vehicle with efficiency of 700+ mpg and electric vehicle with 130+ mi/kwh
- ◆ Developed fuel burn algorithm with real time analysis of data from battery and motor
- ◆ Manufactured structural components out of carbon fiber, plastics, and aluminum

Golden State Racing | Composites and Aerodynamics Lead 2018 – 2019

- ◆ Designed road capable solar car from concept to manufacturing using NX modeling
- ◆ Submitted in Bridgestone 2019 World Solar Challenge, a 3000 km race in Australia
- ◆ Simulated composite body designs with Star CCM to optimize aerodynamics
- ◆ Ran FEA on composite body using MSC Apex to improve chassis design

Creative Labs @ UCLA | Hardware Engineer 2019

- ◆ Developed the working prototype of an IoT bean bag device
- ◆ Integrated Google Home skill and mobile app to control the electronic functionality
- ◆ Designed circuit to include heating pad, wireless charger, LED lights

Skills:

SolidWorks, NX, AutoCad
React, Redux, JavaScript, Java, C++
Finite Element Analysis on Composites
Data analysis and Statistics

MCUs and Embedded Systems
Star CCM for Computational Fluid Dynamics
Metal Machining and Woodworking
Learning: Python, MATLAB

Awards and Honors:

Engineering Dean List: 2018 – Present
1st Place Booz Allen Hamilton Summer Games
1st Place IdeaHacks Hackathon: 2018
Engineering Fellow – City Fellows Consortium

Valedictorian of JCHS Class of 2018
Eagle Scout – Boy Scout Troop 6: 2016
NMSC National Merit Scholar: 2018
National Honor Society: 2016 – 2018