

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: Semiconductors, Multivariable Calculus, Characterization, Thermodynamics,

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 AWS EC2 Cluster in real time
- ◆ Customizable UI for the needs of clients using React, Redux, JavaScript, Enterprise Architect

Super Mileage Vehicle | Research and Development Lead 2018 – 2019

- ◆ Developed vehicle data acquisition system with React, Firebase, Python, and Arduino
- ◆ Manufactured a gas vehicle with efficiency of 700+ mpg and electric vehicle with 130+ mi/kwh
- ◆ Conducted mathematical analysis on burn algorithms w/ real time data acquisition system
- ◆ Manufactured structural components out of carbon fiber, plastics, and aluminum

Creative Labs @ UCLA | Engineering Project Manager 2019

- ◆ Leading team of 11 engineers to develop IoT coffee maker with mobile app and MCUs
- ◆ Implemented skills and features using React Native, Android, C++, and SolidWorks
- ◆ Developed the prototype of an IoT bean bag device by designing circuits and sensors
- ◆ Integrated mobile app and Google Home skill to control the electronic functionality

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 determine chassis design

Skills:

SolidWorks, NX, AutoCad
React, Redux, JavaScript, Java, C++
Finite Element Analysis on Composites
Mathematical modeling and simulations

MCUs and Embedded Systems
Python, MATLAB – Data Analysis
Star CCM for Computational Fluid Dynamics
Metal Machining and Woodworking

Awards and Honors:

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