

# Ashvin Nagarajan

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## Education:

University of California, Los Angeles (UCLA) 2018 - 2022  
B.S., Materials Science and Engineering GPA: 4.00 / 4.00

## Selected Projects:

### Booz Allen Hamilton | Software Engineer 2019

- ◆ Developed a data visualization tool for a containerized cluster environment with Kubernetes
- ◆ Provides insight on the health and performance of a network with clear applications in cyber security, project management, CI/CD pipeline, systems engineering, and education
- ◆ Customizable user interface and dashboard tailored to the needs of enterprise clients

### Super Mileage Vehicle | Research and Development Lead 2018 – 2019

- ◆ Led a team of 6 to develop data acquisition system and mechanical failure simulations
- ◆ Designed a gas vehicle with efficiency of 800+ 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
- ◆ Entered 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 for 3D Modeling  
React, Redux, C++, JavaScript, Java  
Finite Element Analysis on Composites

Star CCM for Computational Fluid Dynamics  
Metal Machining and Woodworking  
Data analysis and Statistics

## Awards and Honors:

Engineering Dean List: *Fall 2018 – Present*  
Valedictorian of JCHS Class of 2018 – *June 2018*  
Eagle Scout – Boy Scout Troop 6: *June 2016*

1<sup>st</sup> Place IdeaHacks Hackathon – *Feb 2018*  
National Honor Society: *Feb 2016 – June 2018*  
NMSC National Merit Scholar: *May 2018*