

# Ashvin Nagarajan

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## Education:

### University of California, Los Angeles (UCLA)

B.S. Materials Science and Engineering GPA: **4.00** / 4.00

Sept 2018 – June 2022

M.S. Materials Science and Engineering GPA: **In Progress**

Jan 2021 – June 2022

## Work Experience:

### Bruin SuperMileage Electric | Team Director

2018 – \*

[Jira](#), [Agile](#), [Project Management](#), [Python](#), [C++](#), [Figma](#), [React](#), [PCB Design](#), [Arduino](#), [FEA](#)

- ◆ Designed and manufactured electric vehicle with 130+ mi/kwh, 50x better than Tesla Model 3
- ◆ Directing operations of subsystem leads and overseeing 50 engineers with 10+ concurrent projects
- ◆ Developed vehicle data acquisition system w/ embedded sensors for real time analysis of vehicle
- ◆ Implemented real-time driver interface to monitor and analyze data on the cloud

### Heal | Product Management Intern

Spring 2021

[Scrum](#), [Jira](#), [Product Management](#), [Requirements](#), [User Stories](#), [UI/UX](#), [SQL](#)

- ◆ Defined requirements and user stories for Adherence Alerts on Remote Patient Monitoring product
- ◆ Designed multi-step, at-home user experience and interface for Medicare-age target demographic
- ◆ Collaborated with Engineering and Design to clarify requirements and get stakeholder buy-in
- ◆ Created Metabase/SQL dashboards to model telemedicine call durations and memory utilization

### Cisco Systems | Software Engineering Intern

Summer 2020

[Jira](#), [Scrum](#), [Python](#), [Flask](#), [Grafana](#), [InfluxDB](#), [AWS](#), [Docker](#), [Kubernetes](#), [Helm](#), [Prometheus](#), [Prophet API](#)

- ◆ Created API to scale containers dynamically based on reactive and predictive machine learning
- ◆ Gathered design requirements and communicated between teams in San Jose and London
- ◆ Integrated logging metrics with Prometheus and deployed application to testing Kubernetes cluster
- ◆ Developed debug tool to analyze audio routes for more efficient cascade error identification

### Booz Allen Hamilton | Software Engineering Intern

Summer 2019

[Docker](#), [Kubernetes](#), [AWS](#), [React](#), [Redux](#), [JavaScript](#), [Bash](#), [Git](#), [Agile](#), [Product](#)

- ◆ Developed full-stack data visualization tool for single cluster Kubernetes environments
- ◆ Provided SaaS insights on the health and performance of AWS cluster using Kubernetes APIs
- ◆ Designed customizable user interface with streamlined integration for existing clients
- ◆ Earned 1<sup>st</sup> Place Overall out of 80+ intern teams judged by senior leadership team at McLean HQ

## Skills:

Git, Agile, Scrum, Jira

Python, C, C++

Docker, Kubernetes, Helm, AWS

SolidWorks, NX, Ansys, StarCCM

Product Management

React, Redux, JavaScript

MCUs and Embedded Systems

SQL, InfluxDB, Grafana, Firebase

## Awards and Honors:

UCLA Departmental Scholar

1<sup>st</sup> Place IdeaHacks Hackathon

1<sup>st</sup> Place Booz Allen Summer Games

Valedictorian of JCHS Class of 2018

UCLA Sharpe Fellow

Eagle Scout – Boy Scout Troop 6

Published author – 2020 IEEE ECTC

Disney Imaginations Semifinalist