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

Work Experience:

Cisco Systems | Incoming Software Engineering Intern — Summer 2020

- Will be a backend developer on the WebEx Collaboration platform using Python and C++
- Optimizing server communication, storage, and processing of data

Booz Allen Hamilton | Summer Games Intern — Summer 2019

Docker, Kubernetes, AWS, React, Redux, JavaScript, Bash, Git, Agile, Product

- Developed full-stack data visualization tool for Docker environments with Kubernetes
- Software provided insight on the health and performance of AWS cluster with Kubernetes APIs
- Pitched a business model with customizable UI and subscription service for existing clients
- Earned 1st Place Overall out of 80+ intern teams judged by executive leadership at McLean HQ

Super Mileage Vehicle | Technical Director — 2018 – *

React, Redux, Firebase, PCB Design, MCUs, Python, Arduino, FEA, Agile, Jira

- Directed operations of subsystem leads and oversaw 40+ engineers with 10+ concurrent projects
- Designed rigorous SOPs to measure efficiency and ensure quality of improvements made on car
- Developed vehicle data acquisition system w/ embedded sensors for real time analysis of vehicle
- Implemented live driver interface to monitor and analyze data in real time from anywhere

Selected Projects:

Center for Heterogeneous Integration and Performance Scaling | Researcher — 2019 – *

C, C++, Ansys, Circuit Design, PCB Fabrication, Bluetooth L.E., MCUs

- Programmed a next-generation, prototype gas sensor to detect harmful gasses like CO, CH3
- Published as second author in IEEE/ACM ICPC Conference 2020
- Programmed MCUs in C to optimize data transfer over multiple ADC channels at 2kHz frequency
- Coded web application to visualize data and present sensor readings in real time

Creative Labs @ UCLA | Engineering Project Manager — 2019 – *

MCUs, Circuits, React Native, Solidworks, Machining, Google Home API, Google Cloud Vision

- Led team of 11 engineers to develop IoT coffee maker combining customizability and convenience
- Specified day-to-day and high level objectives to hit weekly targets and ensure effective workflow
- Integrated mobile app and Google Home API to control all hardware functionality

Skills:

React, Redux, JavaScript
SQL, Metabase, Firebase
SolidWorks, NX, AutoCAD
Sketch, Figma, Adobe XD
Python, MATLAB, Java, C, C++
Git, Agile, Scrum, Jira
MCUs and Embedded Systems
Data Analysis, Google Analytics

Awards and Honors:

1st Place IdeaHacks Hackathon
Disney Imaginations Semifinalist
Fellow – City Fellows Consortium
Eagle Scout – Boy Scout Troop 6
Valedictorian of JCHS Class of 2018
Engineering Dean List: 2018 – Present
NMSC National Merit Scholar: 2018
National Honor Society: 2016 – 2018