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 | Software Engineering Intern   Summer 2020
Python, C++, Docker, Graphana, InfluxDB, AWS, Prophet API, Agile, Scrum
- Creating API to scale containers dynamically based on historical and predictive data analysis
- Deploying my production-ready application to Kubernetes clusters in 10 datacenters
- Obtaining estimated cost savings of $2.7M per year by allocating resources more efficiently
- Developing debug tool to analyze audio routes for 25%+ more efficient 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 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 senior leadership team at McLean HQ

Selected Projects:

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
- Implemented rigorous SOPs to measure 200+ mi/kwh efficiency and improvements made on car
- Developed vehicle data acquisition system w/ embedded sensors for real time analysis of vehicle
- Implemented real-time driver interface to monitor and analyze data from the cloud

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 ECTC Conference 2020
- Programmed MCUs in C to optimize data transfer over multiple ADC channels at 2kHz frequency
- Coded web application over Bluetooth to visualize data and present sensor readings in real time

Skills:

Python, MATLAB, Java, C, C++	React, Redux, JavaScript
SQL, InfluxDB, Metabase	Git, Agile, Scrum, Jira
SolidWorks, NX, Ansys, StarCCM	MCUs and Embedded Systems
Sketch, Figma, Adobe XD	Project Management, Communication

Awards and Honors:

1st Place IdeaHacks Hackathon	1st Place Booz Allen Summer Games
Published in IEEE ECTC 2nd author	Valedictorian of JCHS Class of 2018
Disney Imaginations Semifinalist	NMSC National Merit Scholar: 2018
Eagle Scout – Boy Scout Troop 6	National Honor Society: 2016 – 2018