

Software Skills

Java, C/C++,
Android Development, Arduino,
Autodesk Eagle, Cassandra,
Python, Verilog, Elasticsearch,
Ansible, Bash, OpenTSDB, Flume,
JavaScript,
Scrum Development Process

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Education

University of California, Los Angeles

B.S. Computer Science and Engineering 2019

3.83/4.00 GPA

Coursework: Intro/Advanced C++, Data Structures, Algorithms, Software Construction (Bash, Shell, Python)

Activities: HKN, IEEE, Racing at UCLA, UPE, ACM

Awards

ViaSat @ SD Hacks 2016
SD Hacks - 1st Place in ViaSat Category: Best Communication Hack Oct/2016

- Created C.A.R.M. (Communicate Among Random Masses), a Chrome extension that allows users to message others on the same website

UCLA Dean of Engineering Dean's Honor List Spring/2017

- Placed on the Dean's Honor List for receiving a GPA of 3.7 or higher for my first and second year at UCLA

AT&T Developer Program AT&T Hackathon - 1st Place in Teen Category Oct/2012

- Created a Java app that generates interest in education by displaying a student's grades and connecting them to tutors

Employment

ViaSat

Software Engineering Intern

Jun/2017 to Sep/2017

Worked on creating the infrastructure to monitor data from the routers and visualizing the data for business analytics:

- Used Docker containers and Apache Flume to create a flow of data
- Automated the infrastructure deployment and AWS/VMware VM provisioning process with Ansible
- Processed Spark streams using Scala and stored the processed data into OpenTSDB
- Graphed data using Grafana to let business leaders make critical decisions of the Arclight network

Reltio

Software Engineering Intern

Jun/2016 to Aug/2016

Worked on the company's Master Data Management (MDM) product to tailor it to individual customers' needs:

- Developed and modified features in the API (Java, Cassandra, Elasticsearch) and the UI (Qooxdoo JS)
- Found and fixed major bugs within the product's code base before it was deployed
- Gained a critical understanding of the PaaS model of service and used Git extensively to collaborate with developers around the world

SmartMonitor and IntelliVision

Software and Product Development Intern

Jun/2014 to Aug/2014

Concurrently interned at two companies, splitting my time accordingly to the tasks given:

- Tested SmartMonitor's product, a smart watch for epileptics, and assisted in designing and pitching a new product to other companies
- Created a website for one of the IntelliVision's products and tested proprietary software for accuracy to optimize the customer's experience

Personal Projects

Micromouse 2016 - <https://github.com/sahilmgandhi/MicroMouseEagle>

Sep/2016 to Jun/2017

- Designed an autonomous maze solving robot that uses a modified flood fill algorithm to find the center
- Programmed the STM32F411 microcontroller using MBED, and created the PCB and project schematic using Autodesk Eagle

C.A.R.M. - <https://github.com/getCarm/CARM>

Oct/2016 to Jun/2017

- Created a Google Chrome extension at SD Hacks 2016 that allows users to go on a website and instantly message users on the same website
- Released the extension onto the Chrome Web Store

REM.my - <https://github.com/sahilmgandhi/REM.my>

May/2016 to Dec/2016

- Created an Android application that asks the user for the latest time that they wish to wake up, and appropriately creates an alarm that maximizes their REM sleep
- REM.my helps students or anyone with dynamic sleep schedules to wake up every day refreshed and energized and is available on the Play Store

Activities

HKN at UCLA - ECE Honors Society

Membership Chair '17 - Current | Member '17 - Current

Apr/2017 to Current

- Facilitated the induction of and creation of membership requirements for new inductees

IEEE at UCLA - Electrical Engineering Organization

Workshops Manager '17 - Current | OPS Co-Lead '16-'17 | Member '15 - Current

Sep/2015 to Current

- Designed and taught projects to more than 100 new students and currently designing workshops on various communication protocols and EE topics

Super-mileage Vehicle at UCLA - Racing Organization

Electric Vehicle Hardware Team Member '15 - Current

Sep/2015 to Current

- Learned about and designed the systems and components that make up an electric vehicle to compete in the Shell Eco Marathon Competition