SAHIL GANDHI

SOFTWARE ENGINEER

Software Skills

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

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Education

University of California, Los Angeles

B.S. Computer Science and Engineering 2019 | M.S. Computer Science 2020

3.85/4.00 GPA

Coursework: Data Strutures, Algorithms, Operating Systems, Databases, Machine Learning, A.I.

Awards

Dean's Honors List - Years 1, 2, 3

SD Hacks 2017 - 1st Place in Genome Link Category — Oct./2016

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

AT&T Hackathon - 1st Place in Teen Category — Oct./2012

Activities

IEEE -
PM '18-'19 | Workshops Manager '17-'18 | OPS Lead '16-'17 | Member '15 - Current

TBP -
Club Liaison '17 - '18 | Member '17 - Current

HKN -
Membership Chair '17 - '18 | Member '17 - Current

Super Mileage Vehicle -
Electric Vehicle Team '15 - 17'

Employment

UCLA Scalable Analytics Institute - *Undergraduate Researcher*   Jan./2018 to Current

Researching under Dr. Carlo Zaniolo and PhD student Ariyam Das on real time data-stream databases and graph visualizations:
- Creating an NLP tool for easily writing Datalog queries using natural English semantics
- Using Node JS, Express and native JavaScript to create UI for streaming utility
- Built an n-ary And-Or tree parser using Java for use in the querying system

Facebook - *Test Infrastructure Automation Engineering Intern*   June/2018 to Sept./2018

Bridged the functionalities of several services to form a single more coherent automated testing tool for testing and validating new hardware
- Optimized the DB design and queries to speed up the validation portal UI by more than 50%
- Automated the creation and updates of test results, saving over 4 hours of manual updates per person, per week!
- Implemented a more logical grouping of hardware reservations to provide a better coverage map and enable automated re-testing
- Redesigned the validation portal to talk to other services, and migrate to the new CI/CT pipeline

ViaSat - *Software Engineering Intern*   June/2017 to Sept./2017

Created the infrastructure to transport data off airplane routers, process it, and then visualize it for business analytics:
- Used Docker containers and Apache Flume to create a flow of data off routers into our hands
- Automated the infrastructure deployment and AWS/VMware provisioning process with Ansible
- Processed Spark streams using Scala and stored the processed data into OpenTSDB
- Graphed data in Grafana to let business leaders make critical decisions of the Arclight network

Reltio - *Software Engineering Intern*   June/2016 to Aug./2016

Worked on the company's Master Data Management product to tailor it to 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 SaaS model of service and used Git extensively to collaborate with developers around the world

SmartMonitor and IntelliVision - *Software and Product Development Intern*   June/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

Trivia Bot   Jan./2018 to May/2018
- Created a python bot to assist me and my friends during trivia games

Bruin Dining Backend   May/2017 to Oct./2017
- Published an API endpoint to grab various information about UCLA dining items

Micromouse   Sept./2016 to Current
- Designed the PCB and programmed the MCU for an autonomous maze solving robot

C.A.R.M.   Oct./2016 to June/2017
- Published a Chrome extension for users to message others on the same website

REM.my   May/2016 to Dec./2016
- Published an Android application for those with dynamic sleep schedules