

Sahil Gandhi

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EDUCATION

University of California, Los Angeles

M.S. Computer Science; GPA: 4.00

Apr 2019 - Jun 2020

B.S. Computer Science and Engineering; GPA: 3.87 (*Magna Cum Laude*)

Sep 2015 - Mar 2019

Selected Coursework: Big Data Systems (*IP*), Computer Security (*IP*), Parallel and Distributed Computing, Autonomous Vehicle Communications, Algorithms, Operating Systems, Computer Networking, Databases, Machine Learning, ML in Hardware

SKILLS

Programming Languages: Java, Python, C++, C, C#, Javascript, Verilog, Bash, Hack, Scala

Technologies: Ansible, CUDA/OpenCL, OpenTSDB, RocksDB, Protobuf, Docker, Jenkins, Git, Mercurial, UNIX

WORK EXPERIENCE

Microsoft, *Software Engineering Intern*

Jun 2019 - Sep 2019

- Revamped logging infrastructure in distributed build tool to use ProtoBuf schemas for forward/backward compatibility
- Implemented a caching feature for important log data in RocksDB to speed up log file analyzers between 5x and 200x, allowing software engineers in Windows and Office to gain insights to optimize their distributed builds further

UCLA ScAi Lab, *Undergraduate/Graduate Researcher*

Jan 2018 - Jun 2019

- Researched under Dr. Zaniolo and Ariyam Das on real-time streaming DBs, NLP Datalog parsers, and graph visualizations
- Built an n-ary And-Or tree parser for faster querying, an NLP tool to parse Datalog and Python profilers for HAT trees

Facebook, *Software Engineering Intern*

Jun 2018 - Sep 2018

- Merged functionalities of several testing tools to enable automated re-testing and move to the new CI/CT pipeline
- Optimized the DB design to speed up queries and the validation portal UI by more than 50%, and automated the creation and updates of test results: saving the organization over \$300,000 a year in man-hours

ViaSat, *Software Engineering Intern*

Jun 2017 - Sep 2017

- Created infrastructure using Docker and Apache Flume to grab data from airplane routers, and automated it using Ansible
- Processed data using Scala, stored it in OpenTSDB, and graphed it in Grafana to present to business executives

Reltio, *Software Engineering Intern*

Jun 2016 - Aug 2016

- Developed and modified API features (Java, Cassandra, Elasticsearch) and fixed major bugs in code base before releases
- Gained a critical understanding of the PaaS model and used Git extensively to collaborate with developers around the world

SmartMonitor and IntelliVision, *Software and Product Development Intern*

Jun 2014 - Aug 2014

- Concurrently interned at two companies: created an internal product website for IntelliVision and designed/analyzed a prototype medical patch for SmartMonitor to pitch to larger bio-tech firms like Genentech

PROJECTS

Trivia Bot: Created an automated python bot to tackle online trivia games like HQ Trivia, Beat the Q, and more

Micromouse: Designed the PCB and programmed the MCU for an award winning autonomous maze solving robot

Free Throw Classifier: Created a classifier for basketball free throws using three Hexiwears mounted on a user's arm

Bruin Dining Backend: Published an API endpoint that allows developers to grab information about UCLA dining items

C.A.R.M.: Published a Chrome extension that lets users to message anyone else on the same website at any time

REM.my: Published an Android application that optimizes the sleep cycle for those with dynamic sleep schedules

AWARDS

California Micromouse Comp (Camm): 2nd place in 2018 and 1st place in 2019

May 2018, May 2019

All American Micromouse Comp (AAMC): 2nd place in 2018 and 2019

May 2018, May 2019

Idea Hacks (Hardware Hackathon) 2018: Top 10 overall amongst 40 teams

Jan 2018

UC San Diego Hacks 2017: 1st place in the Genome Link Category

Oct 2017

UC San Diego Hacks 2016: 1st place in the ViaSat Category

Oct 2016

ACTIVITIES

UCLA IEEE: PM ('18-'19), Workshops Manager ('17-'18), OPS Lead ('16-'17), Member ('15-'20)

2015-2020

UCLA Eta Kappa Nu (HKN): Membership Chair ('17-'18), Member ('17-'20)

2017-2020

UCLA Tau Beta Pi (TBP): Club Liaison ('17-'19), Member ('17-'20)

2017-2020

UCLA Upsilon Pi Epsilon (UPE): Member ('16-'20)

2016-2020

UCLA Supermileage Vehicle - Electric Vehicle: E.V. Team Lead ('16-'17), Member ('15-'17)

2015-2017