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, Data Structures, Algorithms, Operating Systems, Computer Networking, Databases, Machine Learning, Machine Learning in Hardware, Quantum Programming, Embedded Networking Systems, Autonomous Vehicle Communication

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 by more than 500%, 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

Teaching Assistant at UCLA CS: CS M51a - Logic Design of Digital Systems (Fall 2019)	**2019**
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**

Publications

Teaching Assistant at UCLA CS: CS M51a - Logic Design of Digital Systems (Fall 2019)	**2019**
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