# Sartaj Singh Baveja

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# SKILLS

# **PROGRAMMING**

Python • Java • C++ • JavaScript Scala • React • TypeScript MySQL • MongoDB • InfluxDB

#### **SERVICES**

Google Cloud Platform • Flask Amazon Web Services • Git Unix Shell Scripting • Web API's

# LINKS

Google Scholar:// Sartaj Baveja Github:// sartaj 10 LinkedIn:// sartajsinghbaveja

# COURSEWORK

Applied Machine Learning Fundamentals of Data Engineering Statistics for Data Science Data Structures and Algorithms Computer Systems Organization Operating Systems Software Engineering

# **OPEN SOURCE**

CERN Particle Explorer SafrZone, CHIMEHACK2 Winners Periscope.io, Zomato Smart Physio, MIT Media Lab

# AWARDS & HONORS

2015-16 NSITOnline Web Team Lead

2012-16 Merit Scholarship Awardee

2015 Hackathon Winners
Engineering Excellence
Award by Twitter

2015 Accepted to the MIT Media Lab Workshop

2012 Gold Medal for 7 years of academic excellence

in high school

#### **FDUCATION**

#### UNIVERSITY OF CALIFORNIA, BERKELEY

MASTER OF INFORMATION AND DATA SCIENCE | 2018 - 2020 (EXPECTED)

#### **NETAJI SUBHAS INSTITUTE OF TECHNOLOGY**

B.E IN ELECTRONICS AND COMMUNICATION ENGINEERING | 2012 - 2016

- Aggregate Percentage: 79.32%
- Merit Scholar for all 4 years from 2012-16

# **PUBLICATIONS**

[1] KIRAN M, MURPHY P, MONGA I, DUGAN J AND BAVEJA S.S. LAMBDA ARCHITECTURE FOR COST-EFFECTIVE BATCH AND SPEED BIG DATA PROCESSING. IEEE INTERNATIONAL CONFERENCE ON BIG DATA (BIG DATA), 2785 – 2792, OCT 2015

# **EXPERIENCE**

# **ENERGY SCIENCES NETWORK** | Lawrence Berkeley National Lab Software Engineer

May 2017 - Present | Aug 2016 - Feb 2017 | June 2015 - Aug 2015 | Berkeley, CA

- Assisting in the operational support and feature development for ESnet software and tools such as **OSCARS**, an advanced software system for booking time and resources on high-speed science networks to share vast amounts of data.
- Working on Open Source **Network Data Processing and Visualization Tools** (Pond.js ♂, Network Diagrams ♂, Timeseries Charts ♂)
- Worked on the development of a network analytics pipeline using the **Google Cloud Platform** to store, process and visualize large network data [2]
- Analyzed InfluxDB, a timeseries database and Amazon Web Services (AWS) for cost-effective batch and speed big data processing

# **CERN** | EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH OPENLAB SUMMER STUDENT

June 2016 - Aug 2016 | Geneva, CH

- One of the 40 out of 1500 applicants chosen globally
- Assessed, evaluated and tested the capabilities and performance of Oracle Database 12c to store **CMS Experiment data** (~2 TB per year) in JSON Format
- Compared the performance with MongoDB ♂

#### **MULTIMEDIA RESEARCH LAB** | GESTURE RECOGNITION USING MOMENTS

ADVISOR: DR. JYOTSNA SINGH

Aug 2015 - May 2016 | New Delhi, IN

- Using Background Subtraction, Feature Extraction and Classification, wrote an efficient algorithm for hand gesture recognition
- Achieved a 92% accuracy in detecting hand gestures without transformations and 89% with transformations [2]

### **BUZZ4HEALTH** | A SMART PLATFORM FOR DOCTORS

MOBILE APP DEVELOPER

June 2014 - Nov 2014 | New Delhi, IN

- Built the first Android Version for the healthcare startup
- Featured in the **Top Free Medical Apps** on the Google Play Store
- Achieved a 100x user base growth within 3 months