# SAURAV CHHATRAPATI

sauravc@berkeley.edu • saurav-c.github.io • GitHub: saurav-c

## EDUCATION

**University of California, Berkeley — Electrical Engineering and Computer Science, M.S.** *Aug. 2020 — May 2021*

- Advisor: Joseph M. Hellerstein
- Research Discipline: Distributed Systems & Serverless Computing
- Head TA for CS 186 – Databases (Spring 2020 – Present)

**University of California, Berkeley — Electrical Engineering and Computer Science, B.S.** *Aug. 2017 — May 2020*

- GPA: 3.73 | Dean's List – Spring 2019
- Coursework: Advanced Databases, Distributed Systems, Operating Systems, Security, Networking, Machine Learning, Artificial Intelligence, Algorithms, Data Structures, Computer Architecture

## EXPERIENCE

**Software Engineering Intern | Salesforce** *May 2020 – Present*

- Worked on a Tensorflow machine learning model serving system to extract insights from customer emails, using Kotlin, Java, and Apache Kafka
- Designed and built a service to register and execute commands on applications running in production

**Software Engineering Intern | Yahoo / Verizon Media** *May 2019 – Aug. 2019*

- Designed and implemented metadata migration from MySQL to RocksDB for NoSQL KVS (Sherpa)
- Programmed in C++ and Bash to deploy changes on 1000+ production servers requiring a careful operational procedure to not impact 1M+ QPS traffic
- Created a high-level design for near real-time snapshot of the KVS on Hadoop clusters

**Software Engineering Intern | Informatica** *Dec. 2018 – Jan. 2019*

- Implemented Kubernetes and AWS Identity Access Management integration to provide Node and Pod level role-based access control

## RESEARCH

**Graduate Student Researcher | RISE Lab – UC Berkeley EECS** *May 2018 – Present*

*TASC*

- Designed and implemented a transactional shim for serverless functions
- Used GoLang, Kubernetes, gRPC to provide low-latency, fault-tolerant KVS API calls

*Hydro*

- Worked on a serverless stateful functions-as-a-service (FaaS) programming framework

**Publications**

- *A Fault-Tolerance Shim for Serverless Computing.* V. Sreekanti, C. Wu, **S. Chhatrapati**, J. E. Gonzalez, J. M. Hellerstein, J. M. Faleiro. EuroSys 2020.

## PROJECTS

**NBA Player Classification**

- Led Sports Analytics Group at Berkeley project to classify NBA player types and characterize team playing styles using ML classification techniques

**Gitlet**

- Designed and implemented version control system in Java with Git-like functionality

## SKILLS

**Languages:** Java, Python, C, C++, GoLang, Kotlin, SQL, Bash

**Technologies:** AWS, Docker, Kubernetes, Nomad, Spark, Kafka, ZeroMQ, gRPC, Git, Maven