

# SAURAV CHHATRAPATI

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## EDUCATION

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### University of California, Berkeley

- Electrical Engineering and Computer Science, M.S. Aug. 2020 – May 2021
- *Research Discipline: Distributed Systems & Serverless Computing, Advisor: Joseph M. Hellerstein*
- 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

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### Software Engineering Intern | Salesforce May 2020 – Aug. 2020

- *Worked on a Tensorflow machine learning model serving system to extract insights from customer emails, using Kotlin, Java, and Apache Kafka*
- *Designed and built service to register and execute commands on applications, reducing time to deployment, allowing for dynamic changes in production, and simplifying monitoring/debugging*

### Head Graduate Student Instructor – CS 186 (Databases) | UC Berkeley EECS January 2020 – Present

- *Helped manage staff of 20 TAs to teach core database concepts, lecture in section, hold office hours, write/grade exams, and debug database management system project in 650+ student course*
- *Revamped relational database content and developed new material for NoSQL*

### 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 AWS IAM integration to automate Kubernetes Node & Pod level role-based access control for customer Spark jobs to improve security, streamline manageability, and reduce resource use*

## RESEARCH

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

#### [TASC](#)

- *Designed and implemented a transactional shim with strong consistency for serverless applications*
- *Used GoLang, Kubernetes, gRPC to provide low-latency, fault-tolerant KVS API calls*

#### 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

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### [In Demand Parking](#)

- *Developed peer-to-peer web app for finding public parking, with a team of four at CalHacks*
- *Implemented backend in Java using Spring Framework, and built ML microservice with Python and Flask*

### [NBA Player Classification](#)

- *Classified NBA players and team playing styles using unsupervised ML classification techniques*

#### Gitlet

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

## SKILLS

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

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