SAURAV CHHATRAPATI

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EDUCATION

University of California, Berkeley **Expected:** May 2020
Electrical Engineering and Computer Science, B.S.
GPA: 3.67

SKILLS

Languages: Java, Python, C, C++, GoLang, SQL
Technologies: AWS, Docker, Kubernetes, Spark, OpenMP, ZeroMQ, AWS, Git, Vim, Logisim

EXPERIENCE

Software Engineering Intern | Yahoo / Verizon Media May 2019 – Present

- Worked with Core Platforms team on internal NoSQL database (Sherpa) with billions of requests per day and high throughput cloud messaging publish-subscribe system (Apache Pulsar)
- Designed and implemented migration plan for moving system metadata from MySQL to RocksDB

Undergraduate Researcher | RiseLab – UC Berkeley EECS May 2018 – Present

Fluent Project

- A data-driven compute platform that provides serverless APIs to execute custom code on cloud datastores
- A cloud native, elastic, tiered key value store that uses coordination-avoiding techniques and asynchronous message passing to provide very low latency reads and writes
- Implemented the Heavy Hitters Sketch to identify hotkeys to reduce per-key metadata overhead and storage by 60%

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

- Implemented Kubernetes and AWS Identity Access Management integration
  - Provided Node and Pod level role-based access control
- Researched cloud cluster security for deploying Spark on AWS, Azure, GCP

CS 61B Computer Science Mentor | UC Berkeley EECS Jan. 2019 – Present

- Taught a weekly section of 5 students
- Helped to prepare for and teach at a midterm review session

PROJECTS

Pintos Spring 2019

- As part of Operating Systems course, developed core functionality of an operational OS, including thread scheduling, file system, user program management

Pyblas Summer 2018

- Implemented C++ library using Boost for providing Linear Algebra functions and extended library to be imported in Python to provide functionality similar to NumPy

GoEcho Summer 2018

- Implemented a broadcasting server in GoLang for sharing messages among users

Gitlet Fall 2018

- As part of the Data Structures course, implemented Git like version control system in Java

Qirkat Fall 2018

- As part of the Data Structures course, implemented the game of Qirkat with a GUI in Java
- Had a top 10 performing AI against a class of 600+ students by using alpha-beta pruning in a minimax algorithm

RELEVANT COURSEWORK

Operating Systems & Systems Programming, Database Systems, Computer Security, Data Structures, Machine Structures
Efficient Algorithms & Intractable Problems, Optimization Models in Engineering, Designing Information Devices & Systems I & II