Rohan Sogani

rmsogani@ucdavis.edu | 530-760-8002 | LinkedIn://RohanSogani | GitHub://RohanSogani

EDUCATION

Master of Science, Computer Science **Expected Spring 2021**
University of California, Davis, CA **GPA: 4.0 / 4.0**
- Courses: Distributed Systems, Dynamics of Network, Advanced Operating Systems, Machine Learning & Discovery

Bachelor of Engineering, Information Technology **August 2012 – July 2016**
Pune Institute of Computer Technology, Pune, India **GPA: 3.8 / 4.0**
- Courses: Data Structure, Design & Analysis of Algorithms, Databases, Computer Networks, Object Oriented Programming

SKILLS

- **Languages**: C++, Java, Python, C, JavaScript, Bash, Golang
- **Software**: Amazon Web Services, Google Cloud Platform, Git, Docker, SQL, Postgres, InfluxDB, DynamoDB, Grafana
- **Framework**: Spring, React, Django, Node, Jenkins

RELEVANT EXPERIENCE

Software Development Engineering Intern **June 2020 – Present**
Amazon, Remote, CA
- Designed a web console to automate and speed up DB querying and data display using Spring, ReactJS, and DynamoDB.
- Decreased data mismatch investigation time by 80% and number of issues to troubleshoot per week by 90%.
- Collaborated with other cross functional teams to unify 2 different web consoles and provided a seamless data display.

Graduate Student Researcher **January 2020 – June 2020**
Exploratory Research Lab, University of California, Davis, CA
- Implemented a sharding protocol to scale ResilientDB, an open source permissioned blockchain, using C++, Shell, Python.
- Increased the system throughput by 200% to 240k txns/sec by optimizing PBFT Consensus Protocol with 2 Phase Commit.
- Built a basic tool to visualize and analyze massive server logs and statistics using Pandas, NumPy and Matplotlib in Python.

Teaching Assistant **January 2020 – March 2020**
Department of Computer Science, University of California, Davis, CA
- Built an open source project to grade C++ programming assignments reducing manual effort by 85%. Python, Docker

Software Developer **August 2016 – August 2019**
SAP Labs, Bangalore, KA, India
- Developed 3 new enterprise cloud applications to manage and visualize hierarchical objects that increased profits by 20%.
- 5x performance improvement of SQL Views, reduced fetching time of application by 75%, using ABAP and OData.
- Developed reusable REST APIs to integrate HANA Cloud with 3rd Party Solutions enabling seamless data synchronization.
- Designed and created time-series charts to visualize Supply and Demand statistics of a product using Java and SAP Fiori.
- Developed dashboards to provide a quick summary of the applications to the customers increasing efficiency by 70%.
- Mentored and empowered two junior developers through code reviews and guidance on complex tasks.

SIDE PROJECTS

Paxos based Consensus Protocol
- Implemented a simple Paxos based Consensus Protocol in ResilientDB to improve throughput by 10%. C++, Docker, Bash.

Dashboard for ReslientDB
- Developed a dashboard to monitor the real-time throughput and latency of servers. React, Node, Grafana, Bash, InfluxDB.

Playing Atari Pong Using Deep Q Reinforcement Learning
- A Convolution Neural Deep Q-Learner that learns the game of Pong by Atari with an accuracy of 98% using TensorFlow.

Hand-Written Digits Recognition
- Developed a multi-class Support Vector Machine to recognize digits with an accuracy of 85% using Python and sklearn.

Netflix Movie Recommender System
- Designed movie recommenders using Spectral Clustering and Matrix Completion with an accuracy of 91% using Python.

Memorize Words WebApp
- A WebApp that helps users to learn words by creating flash cards and provides reminder to revise. React, Golang, Node

Search and Store Bibtex
- A local Web Service for researchers to search and store Bibtex of relevant papers. Django, Python, PostgreSQL.