Sanket Sapkal

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m EDUCATION

• University of Southern California

Master of Science in Computer Science

Los Angeles, CA August 2021 - May 2023

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• Pune Institute of Computer Technology

Bachelor of Engineering in Computer Engineering; GPA: 3.62 (72.5%)

Pune, India *July 2013 - July 2017*

EXPERIENCE

• Cursor Insight Ltd.

London, UK

Software Developer (Remote)

July 2019 - July 2021

- Product: Signowise, a biometric electronic signature and document handling system.
- Developed a distributed and concurrent event dispatching feature for the synchronization subsystem.
- Designed and implemented **Incremental Updates** feature in the synchronization subsystem and workflow engine to optimize the write operations, thereby **improving the write performance by 50%**.
- Implemented a Conflict Resolution framework for the synchronization subsystem to resolve conflicts.
- Designed and implemented a Document Transfer framework, which facilitates handover of electronic document from one client to another across geographical location.
- o Technologies: Erlang, Cowboy, React, SQL, Avro

• Veritas Technologies LLC

Pune, India

Associate Software Engineer

July 2017 - July 2019

- o Product: Veritas Cognitive Object Storage, a distributed object storage based on DynamoDB paper.
- Developed **Object versioning** and **WORM** features, which improved the fault tolerance of the product.
- Enhanced product ingest performance by 400% and read performance by 200% by developing a queuing framework which ensures the spatial locality of related data.
- Enhanced product scale out performance by solving the data rebalancing problem, effectively reducing the data rebalance to 10% of the earlier number, giving VCOS an edge over the competitors.
- Designed and implemented data-chunking and distributed garbage collection frameworks for efficient handling of large objects.
- o Added TLSv1.3, OAuth 2.0, 2FA, KMIP support in the product for enhanced security.
- Added IPv6 support to the product for Public Sector Compliance.
- Successfully demoed Kafka, IoT, Video Streaming applications with VCOS in Veritas tech fairs as well as in customer engagements.
- o Technologies: Elixir, Erlang, Riak Core, RocksDB, LMDB, Phoenix, Angular.js.

◀ PROJECTS

• SeeFruit

- Android App which uses Deep Learning(CNNs) to identify a fruit and provide nutritional info when an android phone camera is pointed at it.
- o Stripped and retrained inception v3 model to generate a custom model for fruits, with accuracy of 85%.
- $\circ \ \ \textit{Technologies: Android, Tensorflow}$

• Smart Chatbot

- Python webapp which uses Deep Learning(LSTMs) to answer to human queries. It can be used to reduce human effort in replying to messages and emails while interacting with customers.
- Neural Network architecture: standard encoder/decoder with 2 LSTM layers (hidden size 256).
- Technologies: Android, NLTK, Tensorflow

• Food Map

- Web app which enables users to list/save favourite restaurants on a personal real time Google Map with custom markers for different types of restaurants.
- Technologies: MEAN stack, Google Maps web API

7 TECHNICAL SKILLS

- Languages: C++, Elixir, Erlang, Java, Javascript, Python.
- Frameworks: Android, CUDA, J2EE, MEAN stack, Phoenix, Riak Core, Tensorflow.
- Databases: LMDB, MongoDB, MySQL, RocksDB.