SANKET SHRIKRUSHNA SAPKAL

Los Angeles, CA | sapkal@usc.edu | 213-667-7307 | https://www.linkedin.com/in/sanket-sapkal/ | https://sanketsapkal.com

EDUCATION

University of Southern California, Los Angeles, CA August 2021 - May 2023
Master of Science in Computer Science GPA: 4.0/4.0
Coursework: Analysis of Algorithms, Machine Learning for Data Science, Database Systems, Web Technologies.

Pune Institute of Computer Technology, Pune, India August 2013 - May 2017
Bachelor of Engineering in Computer Engineering GPA: 3.62/4.0
Coursework: Data Structures, Operating Systems, Principles of Concurrent & Distributed Programming, Computer Networks, High Performance Computing, Data mining, Business Analytics & Intelligence, Web Development, Object Oriented Design.

TECHNICAL SKILLS

Programming Languages: Java, Python, Erlang, Elixir, JavaScript, Typescript, C++, Go.
Frameworks: Phoenix, MEAN, Angular.js, Android, Tensorflow, J2EE.
Databases: MySQL, PostgreSQL, MongoDB, Riak, RocksDB, LMDB.
Other: Linux, Docker, React.JS, REST APIs, Git, Microservices, Kafka, MQTT.

WORK EXPERIENCE

Cursor Insight | Software Developer July 2019 – July 2021

- Signowise | Erlang, Python, Apache Avro, React.JS, MSSQL, GCP.
  - Developed a distributed and concurrent event dispatching feature to convert the existing sync subsystem into a clustering service for the product.
  - Designed and implemented Incremental Updates feature in the sync subsystem and workflow engine to optimize the write and update operations, thereby reducing write and updates times by 50%.
  - Implemented a Conflict Resolution framework to which various conflict resolution techniques can be plugged in to resolve conflict among distributed writes and updates.
  - Designed and Implemented a Document Transfer framework, to share document workflows across clients in multiple geographical locations.
  - Developed resumable file uploader React component.

Veritas Technologies LLC | Associate Software Engineer July 2017 – July 2019

- Veritas Cognitive Object Storage (VCOS) | Elixir, Erlang, Riak Core, Python, RocksDB, LMDB, Angular.js, Phoenix, Apache Thrift.
  - Developed Object versioning and WORM features to protect app from server failure, unintended overwrites/deletes.
  - Developed a queueing framework to ensure spatial locality of relevant data. This framework improved the product write performance by 400% and read performance by 200%.
  - Implemented an Instant Scaling feature to improve VCOS scale out performance. This feature reduced data rebalancing during cluster scale out by 90%.
  - Designed and implemented data chunking and garbage collection mechanisms for efficient handling of large objects.
  - Enhanced product security by adding TLSv1.3, OAuth 2.0, 2FA, KMIP support to the product.
  - Added IPv6 support for US Public Sector and GDPR Compliance.
  - Successfully demoed Video Streaming applications and Kafka, IoT ingestion applications on top of VCOS in Veritas Tech fairs and customer engagements.

PROJECTS

See Fruit, Computer Vision Android App | Android, Tensorflow, CNN

- Designed and implemented an Android app to get the nutritional information of a fruit when a phone's camera is pointed at the fruit.
- The application makes use of a stripped and retrained (retrained exclusively on fruit images) version of inception_v3 model.

Chatbot |Python, NLTK, Tensorflow, Redis, LSTM

- Developed a webapp which uses Deep learning based model to answer human queries. This application can be deployed to reduce human effort in customer care/servicing.

Food Map | Angular.js, Express.js, Node.js, MongoDB, Google Maps Web API

- Developed a webapp which enables users to display and save their favorite restaurants on a map-based UI with custom markers for different types of restaurants.