

SANKET SHRIKRUSHNA SAPKAL

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WORK EXPERIENCE

Klarity Intelligence | Senior Backend Engineer

May 2022 – Present

- Integrated an iPaaS solution, to improve the data ingestion and monitoring. This reduced the customer onboarding time by 95%.
- Designed and implemented automated document workflow application with GPT-4 annotations.
- Led data validation feature which uses GPT-4/Llama 2 to compare data tables, signature blocks, annotations from 2 documents.
- Implemented k-shot learning and auto prompt engineering frameworks to drive partner lead distribution of the product.
- Contributed to the hiring process and played a pivotal role in mentoring new engineers.

Cursor Insight | Software Developer

July 2019 – July 2021

- Signowise | Erlang, Python, Apache Avro, React.JS, MSSQL, GCP.
 - Lead the development of 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 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.
 - Created 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 distributed garbage collection mechanism 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.

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, FastAPI, Node.js, Angular.js, Android, Tensorflow, J2EE.

Databases: MySQL, PostgreSQL, MongoDB, Riak, RocksDB, LMDB.

Other: Linux, Docker, Distributed Systems, React.JS, REST APIs, Git, Microservices, Kafka, MQTT.

PROJECTS

Semantic Search | Python, Bert | Return search results for movies based on summarized movie plots.

See Fruit | Computer Vision Android App | Android, Tensorflow, CNN | Pokedex for Fruits

Chatbot | Python, NLTK, Tensorflow, Redis, LSTM | QA bot with support for short questions

Food Map | Angular.js, Express.js, Node.js, MongoDB, Google Maps Web API | Web app to mark favorite restaurants on a map.