SANKET SHRIKRUSHNA SAPKAL

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

WORK EXPERIENCE

Klarity Intelligence | Senior Backend Engineer　　　　　　　　　　　　　　　　　May 2022 – Present
- Implemented k-shot learning and auto prompt engineering frameworks to drive partner lead distribution of the product.
- Enhanced the speed of in house GenAI application development platform by 10x.
- 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.
- Integrated an iPaaS solution, to improve the data ingestion and monitoring. This reduced the customer onboarding time by 95%.
- 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, Langchain
Databases: MySQL, PostgreSQL, MongoDB, Riak, RocksDB, LMDB.
Other: GPT-4o, Claude 3 Opus, React.JS, 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.