

EMPLOYMENT

| Software Developer | SAP | March 2022 – Current |
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| <ul style="list-style-type: none"> Currently working on crafting a Spark SDA Adaptor within the SAP HANA Cloud Database, facilitating seamless communication with Spark within the SAP HANA Cloud environment. Successfully concluded a Proof of Concept (POC) and presently engaged in the design and implementation of a novel datatype featuring floating-point decimal supporting HANA Cloud HDLRE. This comprehensive undertaking encompasses the entire spectrum of the database stack, involving the development of <u>Data Definition Language (DDL)</u>, storage mechanisms, query processing, query optimisation, client interactions, and data transfer protocols. The project necessitates extensive debugging within a sizeable codebase to ensure seamless integration and functionality. Took on a leadership role by leading a team of four individuals overseeing the successful integration between SAP HANA Cloud HDLRE and SQL on Files Service. Assumed the role of Level 2 support for a cloud-based databases, focusing on <u>Dockerized services and Kubernetes environments</u>. Developed Python-based Spark scripts to facilitate the ingestion of data from Kafka into SAP HDL Files in both Iceberg and Delta formats. Subsequently, orchestrated the data transfer from SAP HDL Files to SAP HANA Cloud Database for analytical query processing. Leveraged Spark Data Frames for efficient data transformation. Conducted a comprehensive performance analysis, comparing the capabilities of the SAP HANA Cloud Spark engine against Databricks Spark engine. | | |
| Software Developer Associate | SAP | July 2019 – March 2022 |
| <ul style="list-style-type: none"> Developed and executed a predicate-based export solution for extended tables in SAP HANA DT, resulting in a 50% reduction in export time for extended tables. Successfully addressed performance issues through meticulous debugging and problem-solving in SAP HANA DT database by implementing an efficient data transfer strategy. Resolved hang issues during the movement of substantial data from the cold store to the hot store by implementing a chunking mechanism for seamless and optimised data transfer. Instrumental contribution in the architectural design and implementation of the integration between SAP HANA Datalake's Files Service and SQL on Files Service, involving the refinement of query processing, optimisation, and the establishment of query federation to SQL on Files Service. Employed REST API and Google's Protobuf library to seamlessly convert C++ classes into JSON messages, enhancing data communication efficiency in HANA Cloud HDLRE. Delivered Level 2 support to clients across diverse domains, showcasing effective communication and outstanding problem-solving skills. Led a dev angel program for a customer, ensuring a smooth adoption of the product and providing valuable guidance for optimal utilisation of SAP solutions. | | |
| Software Developer, Intern | SAP | Aug 2018 – July 2019 |
| <ul style="list-style-type: none"> Implemented a Python-based framework to validate logical data migration in a database both before and after upgrading to a newer version (HANA2SP03 to HANA2SP04), ensuring seamless and error-free transitions. Contributed to the development and stabilization of the SAP HANA Native Storage Extension as a key team member. | | |

EDUCATION

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| Pune, Maharashtra | Vishwakarma Institute of Technology | June 2017 – June 2019 |
| <ul style="list-style-type: none">• Master of Technology in Computer Science Engineering.• Coursework: Computer Networks; Advance Databases; Managerial Economics; User Interface Design | | |
| Pune, Maharashtra | Savitribai Phule Pune University | June 2013 – May 2017 |
| <ul style="list-style-type: none">• Bachelor of Engineering in Information Technology.• Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp. Architecture; Cloud Computing; Machine learning. | | |

COURSES

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|---------------------------------------|---|------------------------------|
| Harvard Business School Online | Credential of Readiness (CRe) | Feb 2022 – June 2022 |
| Coursera | Managing the Company of the Future | June 2020 – July 2020 |

TECHNICAL EXPERIENCE

Academic Projects

- **System to Detect Jihadist Tweets on Twitter (Now X)** (2016-2017): This included identifying radical tweets using sentiment analysis and Naive Bayes algorithm. JAVA, MySQL
- **MSEDCL's Data Gathering and Analysis** (2016): This tool helps MSEB's Distribution agency to manage their input, output of electricity by focusing on the consumption pattern at various levels of distribution to maximize their monetary profit and plan for electricity generation in near future. Php, HTML, Java Script, MongoDB, Oracle 11g

ADDITIONAL EXPERIENCE AND AWARDS

- Java SE 7 Programmer Certification
- Winner of C-Bugs competition at PVG's COET, Pune 2015
- Effectively planned and executed both the inaugural and subsequent editions of the Internal Developer Conference (**DKoM**) at SAP Labs Pune, showcasing strong organizational and planning skills.
- Successfully organized and implemented a **large-scale Science Fair** in collaboration with the Agastya Foundation as part of **Corporate Social Responsibility (CSR)** initiatives.
- Provided **mentorship to three individuals** throughout the aforementioned professional projects.

LANGUAGES AND TECHNOLOGIES

- C++; C; Java; Python; SQL;
- Git; Docker and Kubernetes;