

Srivardhan Reddy Kalli

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EDUCATION

The Ohio State University, Columbus, Ohio
Master of Science in Computer Science

Aug 2021 - May 2023
GPA: 3.7/4.0

RV College of Engineering, Bengaluru, India
Bachelor of Engineering in Computer Science and Engineering

Aug 2015 - May 2019
GPA: 3.9/4.0

SKILLS

Languages: C, C++, Java, Python, SQL, HTML, CSS, Javascript

Framework/Tools: MySQL, Git, Junit, D3.js, NodeJS, PySpark, Airflow, Docker, JDBC, CI/CD, Jira

Infrastructure: GCP, OCI, Linux, Azure, REST

PROFESSIONAL EXPERIENCE

Flairsoft Limited - Software Engineer Intern

May 2022 - Aug 2022

- Streamlined land acquisition deed template population by devising 30 complex SQL queries in SSMS
- Repaired 20 SSRS reports to align with client specifications leading to 4% decrease in errors
- Contributed to 4 data migrations from Oracle databases to SQL server bringing about 2% cost reduction
- Utilized Azure dashboard to track and monitor tasks related to the City of Seattle project

Oracle, India - Software Developer 2

Jul 2019 - Aug 2021

- Programmed Oracle Cloud Infrastructure (OCI) backup and restore services using REST APIs and workflows through Java and YAML as a key member of MySQL Database Services (MDS) backup team
- Strengthened OCI features by implementing 20+ bug-fixes and hot-fixes minimizing real-time issues by 25%
- Achieved close to 10% decrease in user-end compute latency and improved admin control by migrating 3 backup functionalities from data plane to control plane during MySQL Go-live
- Introduced 16 OCI workflow metrics as Grafana dashboard panels, enabling 20% faster issue isolation
- Bolstered bug-fixes with at least 4 unit tests per bug-fix using Junit and performed integration tests through TeamCity CI/CD pipelines, mitigating overall bug reappearance by 80%
- Conducted code reviews for 10 OCI features and bug fixes in Bitbucket, reducing post-release issues by 5%

PUBLICATIONS

- "Object Classification based on Spatial Orientation using Ultrasonic Sensors". Published in IEEE in the fourth International Conference ICCUBEA held at Pune, India (2018) - **Best Paper Award**
- "Risk Analysis and Prediction of Stock Market using ML and NLP" in International Journal of Applied Engineering Research (2018)

PROJECTS

Integrated Cyberinfrastructure for Research in Social Sciences | (Kafka, PySpark, Airflow, Docker)

- Implemented a reliable streaming and batch processing pipeline, leveraging Docker containerized Apache Kafka ecosystem and PySpark, as a vital component of AI-ready platform for handling complex data in various fields
- Employed Airflow to automate data processing and analysis through workflow management

Mini MySQL System with vital SQL compatibility | (C++, Makefile, lex, yacc)

- Designed a holistic mini MySQL RDBMS with basic SQL support, from scratch using C++, multithreading, lex and yacc parsing, and socket programming. Automated project build through Makefile

Object Classification based on spatial orientation | (Android Studio)

- Created an end-to-end android application to advertise real-time object shape classifications produced by a neural network aided cost effective system interfaced with Arduino and ultrasonic sensors

Risk analysis of Stock Market | (Firebase, GCP, Android Studio)

- Developed a Firebase equipped android application to display historical stock trends and predicted risk factor associated with investing in select firms

ACTIVITIES

- **Certification:** MySQL for Developers Ed 4 developed by California Department of Technology
- **Mentoring:** Mentored 3 developers from Enterprise Backup division to bring them up to speed with OCI
- **Mentoring:** Trained 240 undergraduate students in MS Excel and Access as a Graduate Teaching Associate. Led and organized 18 lab sessions producing average course grade of 90%