

# Saurabh Prakash

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Experienced developer with a thirst for knowledge and a love of problem-solving. Consistently recognized for delivering high-quality code on time and budget. Worked on creating an Object-Oriented Database for premise systems. Agile Learner with Success Across Multiple Projects.

*Key hard skills include :*

C++ | OOPS | Design Thinking | Git | OODB | Mentoring | Debugging | Unit Testing | Project Planning

## Experience

### Associate Staff Engineer

Oct 2022 - Present

Tally Solutions Pvt. Ltd.

- Owning the delivery of the TallyPlugin framework, which enables the seamless delivery of select features developed by Tally Solutions to specific customers, contributing to enhanced customer satisfaction and product functionality.
- Led a team of 5 developers in the development of TallyPlugin, maintaining constant communication with Product Managers (PM) and Quality Assurance (QA) team, and facilitating cross-functional collaboration as needed for the project. Additionally, conducted regular scrum meetings for the Plugin, ensuring efficient coordination and progress tracking within the team.
- As the lead developer in the flagship GST Release of the product, I spearheaded efforts across various critical areas, leveraging in-depth functional and technical knowledge, thus contributing to making it the highest-adopted release of the company in 40 years.
- Conducted thorough analysis to identify bottlenecks affecting the product's speed, leading to the redesign of the in-house OODB filesystem for improved performance.
- Served as a mentor of 2 people in the organisation, while also acting as a guide for multiple interns

### Senior Software Development Engineer

Apr 2021 - Oct 2022

Tally Solutions Pvt. Ltd.

- Played a pivotal role as a key contributor in the GST Release of the product, ensuring its successful deployment and functionality.
- Took ownership of the Purpose Data sub-module, a critical component facilitating data exchange with third parties. This module provided a multitude of capabilities including versioning, reconciliation, storage of third-party data, and transaction history.
- Participated in making the UI Reports faster by implementing on-disk structures that can be used to store and retrieve data faster

### Software Development Engineer - II

Apr 2020 - Mar 2021

Tally Solutions Pvt. Ltd.

- Did system design, code design, implementation, and component testing of a data sync component based on the hub & spoke model, facilitating data exchange over the network.
- Contributed to enhancing user experience by implementing changes to enable Dynamic Company Context change, allowing seamless transition of the product context from any screen.
- Enhanced the filesystem's functionality by re-implementing a Range-tree-based file indexing, which was crucial for enabling concurrent operations on the filesystem.
- Made significant contributions to improving the speed of the overall database system by implementing partial read-and-write optimisation.
- Rectified the build configuration of the in-house build tool Maya for several components.

## Software Development Engineer - I

Jul 2018 - Mar 2020

Tally Solutions Pvt. Ltd.

- Achieved 100% unit test coverage of the filesystem layer, a milestone for the organisation.
- Identified and resolved various bugs within the filesystem, both in legacy and newly integrated code.
- Simplified the filesystem's structure and removed unnecessary dependencies, enhancing its overall maintainability and reliability.

## Education

### B.E, Computer Science and Engineering

2014 - 2018

Sir M. Visvesvaraya Institute of Technology, Bengaluru

Aggr: 78 % First Class with Distinction in all the semesters

### Computer AISSCE (Class XII), PCM

2012 - 2014

Bijendra Public School, Purnea

Percentage: 89 %

## Recognitions

### Impact Player

AMJ 2022

Given yearly to one person in the entire engineering function for:

- Ownership and result orientation in ensuring the completeness, correctness and overall quality of design of components/ features.
- Ownership and result orientation in ensuring that work happens with high quality and as per the plan
- Bringing absolute transparency during the journey into product releases, so that corrective action can be taken to ensure the flawlessness and usefulness of our product.

### Start of the Quarter

AMJ 2022

Given quarterly to one person in the entire engineering function for demonstrating :

- Significant impact by way of technical solutions
- Creating considerable impact through demonstrated mastery in our domain, technology or software engineering process
- Significant improvement in quality and/or outcome of the product

### Super Coder

2021 - 2022

Given yearly to one person in the entire engineering function for demonstrating :

- Well-thought-out code design and code
- Elegance in code, good code smell
- Zero (or near zero) defects in the outcome
- Good coverage of Non-functional aspects

### Rookie of the Year

2019-2020

Given to one person in the entire engineering function with less than 2 years of experience:

- Showing exceptional outcome and dedication in gaining mastery over the area of work
- Demonstrating the ability to solve complex problems independently
- Putting in extra effort in completing a critical part of the work

## Extra-Curricular Activities

- Trained the batch of 2023 in Diagnostics in Software Development

- Trained the batch of 2022 in Object Oriented Database
- Trained the batch of 2020 in C++, Data Structures, and Algorithms training to the batch 2020.
- Created a diagnostic tool used across the organization
- Officially mentored several Software Engineering Intern on different projects which included creating an OODB with proper file indexes in C++ and creating a standalone application that can communicate with WhatsApp
- Officially mentored 2 people in the organization for their overall development.
- Being a member of the employee engagement group, organized multiple programs for the organization including the annual football and badminton league.
- Core member of the team that conducted the first nationwide hackathon by the organization