

# Shyam Kumar Vennu

Associate Software Engineer

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## Summary:

As a driven Software Engineer with experience in diverse tech environments, I've consistently delivered impactful solutions, contributing to a cumulative value of \$10M. My passion lies in solving intricate problems and delivering high-quality solutions. Eager to contribute expertise in software development to enhance note-taking experiences at scale.

## Work Experience:

### Associate Software Engineer, Medplus(Optival) 06/2022 - Present, Hyderabad

- Designed and implemented advanced authentication protocols, achieving 30% increase in user security and compliance.
- Ensured secure access for **35,000+ users with rate limiting** and user blocking to prevent threats.
- Utilized agile methodologies to **improve team operational agility by 30%** through efficient issue resolution.
- Engineered and debugged a **multithreaded reporting system for 20 million** records, optimizing server-side performance and query times.
- Optimized back-end testing using tools like Requestly, Developer tools, and debugging, resulting in a 5% enhancement in unit test coverage
- Introduced a self-service onboarding feature that simplified user detail entry and **reduced latency by 2 to 3 minutes**.
- Collaborated seamlessly with cross-functional teams to improve the user interface for the Attendance and Pay module. This enhancement led to a **23% reduction in Live Support contacts** and boosted employee satisfaction from 4.25 to 4.43 out of 5.
- Addressed and corrected inaccurate base pay rates in the AtoZ system by developing a reusable code solution, which led to a **16% reduction in ticket volume** and prevented a potential influx of support tickets.
- Led organization-wide migration to new software dependencies, ensuring seamless adoption. Improved system reliability while sustaining high user satisfaction rate.

## Projects:

### Human Resource Management System(HRMS) | Medplus(optival)

- Enhanced **web and mobile app (Capacitor.js)** increasing productivity by 25% and enhancing accessibility and productivity.
- Created and rolled out six essential modules like Attendance, Comp-off, Holiday, Regularization, Facility, and Self-Service that optimized manual workflows, cutting **processing time by 50% and conserving over 200 hours monthly**.
- Introduced a comprehensive Time Sheet, Holiday, and Activity Management system that increased **task monitoring efficiency by 40%**, allowing for better resource allocation and accountability across all departments.
- Executed Self-Service Module with JWT Authentication, reducing **onboarding latency by 91%**.
- Developed and integrated Global Search and Filters, enhancing code reusability and user experience.
- Crafted UI/UX designs for web and mobile applications that seamlessly enhanced the user experience.
- Constructed login authentication using session-based and JWT methods, with security checks validated through Postman, ensuring flawless functionality.

**Skills:** Django Rest Framework, Mysql, React.js, Redis, Celery, AWS S3

## Technical Skills:

**Languages:** Python, Java, C, SQL

**Web:** HTML, CSS, Javascript, React.js, JQuery, Bootstrap, Redux, Webpack, Babel, AntDesign

**Database :** MySQL, Redis

**Framework:** Django, Rest API, Simple JWT, Session, cookie, Celery

**Tools/Cloud:** AWS Services (S3), Docker, Linux

**Version Control:** Git, GitHub

**IDE:** VS Code, Pycharm, MySQL workbench, Postman

**Mobile:** Capacitor.js(Hybrid React Native)

**Miscellaneous:** OOP's, Complexity analysis, Problem Solving, Deliver results

## Conceptual Skills:

Data Structures and Algorithms, Computer Networks, RDBMS, Operating System, Digital Logics, Computer Organisation.

## Profiles:

● [Leet Code](#) ● [Portfolio](#)

● [GitHub](#)

## Education:

**Bachelor of Technology - KNRR Institution of Technology, Hyderabad**

2022 Grad in Computer Science Technology with a CGPA of 7.6

## Personal Projects:

### Social Media App

Created a social app like facebook/messenger using Angular, Django which showcasing proficiency in modern frontend and backend development technologies.

*Tech stack:* Angular, Javascript, CSS, Django, REST API, API integration, Websocket, MySQL

*GitHub - [Repo](#)*