




Bhavana Poosa

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Profiles

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Education

Keshav Memorial Institute Of Technology	Nov'20 - 2024
CSE	B Tech
9.2	

Experience

Caspex Tech LLP (Client - Experian)	March 2024 – Present
Software Engineer – ESS Technology & FSD Technology	

Worked across key enterprise products including Reseller, Capsupload, Capsweb, and Eossp, contributing to full-stack enhancements, defect resolutions, and cloud migration efforts:

- Migrated database triggers to JPA event listeners, reducing backend complexity and improving system maintainability.
- Resolved critical defects in alert search, data confirmation, and alert reason display, enhancing data accuracy and user experience.
- Implemented PDF page validation and optimized file upload logic, reducing backend failures by 30%.
- Added defensive checks to avoid unnecessary ALM calls and fixed missing IP tracking, restoring full audit traceability.
- Increased unit test coverage by 40% through DAO-level JUnit tests, improving reliability and reducing regression risk.
- Enhanced CI/CD pipeline by integrating SonarQube with Docker builds, ensuring successful quality gate checks.
- Remediated Veracode vulnerabilities and upgraded third-party libraries, strengthening application security.
- Improved performance and responsiveness through lazy loading, validation enhancements, and UI optimization.

Projects

Text2Vision

AI

- Developed a 256×256 text-to-image generation model using StackGAN and BERT tokenizer
- Integrated Conditional Augmentation to improve image diversity and stability
- Achieved 91% accuracy in generating realistic images from user-provided text descriptions

PickNCheck

Machine Learning

- Enhanced frontend with **Streamlit** for dynamic detection and real-time updates. Implemented **YOLOv5** for fast detection (5ms/frame). Prepared dataset with **RoboFlow**, stored items in **SQLite**. Achieved **75% precision** with confidence score ≥0.25.

OnlyUs

Web Application

- This project encrypts sensitive images into unreadable ciphered data for confidentiality. Users decrypt them using secret keys.
- Built a **ReactJS** frontend for user interaction and a **Node.js** backend to encrypt and store uploaded images on **Firebase**.

Skills

Java	Spring boot	MySql	Data Structures	React
Git	Svelte	JavaScript	HTML,CSS	NodeJS,ExpressJS
Cucumber	AWS	Jenkins	Docker	Python

Organizations

Aakarshan (Art Club)	National Service Scheme
Core	Volunteer