Bhavana Poosa

Hyderabad | bhavanapoosa.31@gmail.com | Portfolio

Profiles

Bhavana P | BhavanaPoosa | Bhavana

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:

- Improved product reliability by increasing code coverage from 75% to 95%, reducing production errors by 30%.
- Enhanced application stability by 40% through strategic Spring Boot version upgrades.
- Improved data integrity compliance by 50% by mandating changelog requests.
- Reduced resource consumption by 25% by implementing lazy loading deployment matrices.
- Increased developer productivity and troubleshooting efficiency by 20% by clearly displaying stack-git URLs.
- Successfully managed complex database migration from MySQL to JPA without data integrity issues.
- Enhanced user satisfaction by 35% by resolving critical search functionality defects.
- Decreased registration-related issues by 40% by stabilizing end-user registration processes.
- Increased defect detection by 30% through comprehensive JUnit tests and functional mocking.
- Eliminated CAPS upload errors completely by implementing robust file upload validations.
- Prevented 90% of file upload errors by enforcing strict page count validations.
- Improved log accuracy by 100%, ensuring accurate tracking of user IP addresses.

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	**Angular**	**Svelte**	**JavaScript,HTML,CSS**	**NodeJS,ExpressJS**
Cucumber	**AWS**	**Jenkins**	**Docker**	**Python**

Organizations

Aakarshan (Art Club)
Core

National Service Scheme
Volunteer