Pranav Anyapu

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SUMMARY:

- Around 3+ years of experience in developing Web based and distributed J2EE Enterprise Applications and expertise in implementing Object Oriented Programming (OOPS) with Java, J2EE.
- Expertise in complete Software Development Life Cycle (SDLC) like analysis, design and development of Multi-Tier Client/Server and Web based applications.
- Experience working with J2EE - Java, Servlets, JDBC, JSP, JavaScript, Spring.
- Experience in developing Web based GUI's using JSP, HTML, CSS, and JavaScript.
- Experience working with HTML, CSS, jQuery, JSON, Ajax, JavaScript, and Client-side validations
- Exposure to Application/web Servers like Apache Tomcat.
- Experience working with SOAP and Restful Web Services.
- Experience working with Junit and Jest for unit testing the code.
- Experience working in Waterfall and Agile Methodologies with iterative sprints.
- Excellent working experience with different operating systems like Windows and LINUX.
- Highly proficient in understanding new technologies accomplishing projects goals successfully.
- Exceptionally well organized, strong work ethics and willingness to work hard to achieve objectives.
- Excellent written and verbal communication skills, presentation and problem solving skills.

TECHNICAL SKILLS:

Programming	C, C++, Java, Python, SQL and PL/SQL
Java Technologies	Java, J2EE, Servlets, JSP, JDBC, Spring, Restful Web Services
Scripting Languages	JavaScript, Shell Script.
Frameworks	Bootstrap, ReactJs, Drupal
Databases	MySQL, MS SQL Server 2012, Oracle
Application Servers	Apache Tomcat
IDE/Development Tools	SSMS, vs code, Eclipse IDE, Netbeans, Visual Studio 2008
Operating Systems	Windows 7/8/10/11/XP, Windows server 2008 R2, Linux and Mac OS.
Server Scripting	JSP, AJAX, XML, PHP
Internet Technologies	HTML, DHTML, CSS, JavaScript, XML, XSD, XSLT

EDUCATIONAL QUALIFICATIONS:

- Bachelor's in computer science – Anil Neerukonda Institute of Technology and Sciences **2022**

PROFESSIONAL EXPERIENCE:

Employer: VEGA PROSYS Software Engineer, Visakhapatnam, India
Role: Software Engineer
Project: Ongoing Projects and Maintenance & Operations
Duration: April 2022 – Present

Responsibilities:

- Involved in design and development of internal configuration tools which are used on a regular basis by our internal teams.
- Involved in Unit Testing of Various Modules based on the Test Cases and requirements.
- Utilized Java Debugging and error handling techniques to test and troubleshoot.
- Involved in Functional testing and Regression testing for various modules in web and IOS.
- Involved in the development Web Forms using HTML, JSP and JavaScript.
- Optimized the process of creation and deployment of forms in iOS.
- Developed scripts and implemented utilities in SQL, Bash and PowerShell to improve the workflows.
- Responsible for documenting and maintaining the Wiki with new workflows and process improvements.
- Created new workflows for setting up new databases and configuring them as per requirements.
- Creating and setting up new databases.
- Installing and setting up Windows/Ubuntu servers and workstations.
- Ongoing Maintenance and operations to the existing system

Tools and Technologies Used: SQL, Java, JSP, DHTML, JavaScript, XML, Selenium with python, Redgate SQL Tool Suite, Visual Studio, VS Code, SSMS, Redmine, Octopus Deploy, GIT, Microsoft Office Suite.

Employer: Covanex Technologies Pvt. Ltd, Vijayawada, India
Project: Weekly Activity Report (WAR) System
Role: Java Developer / Internship
Duration: October 2021 – March 2022

Description: Intranet based WAR System is developed as Java applet, which will get downloaded to the client machine. Java applet captures the required information from the user and saves that in oracle back end database. System has exhaustive features to aid the user entering the WAR details like, on-line help system, list feature, personal preference set-up and customization of screen layout.

Responsibilities:

- Involved in the development Web Forms using HTML, JSP and JavaScript
- Developed business layer components using Java
- Developed XML schemas and validation parsers using XSD and J2EE
- Utilized JDBC classes to access the Oracle database
- Involved in writing the SQL queries
- Involved in writing the properties, methods in the class modules
- Utilized Java Debugging and error handling techniques to test and troubleshoot
- Developed common routines for Client-side validations using JavaScript
- Involved in Code Reviews and validation of the standards to produce quality code.
- Performed Unit and Integration Tests to deploy defect free code to production environment

Environment: Java, Servlets, JSP, JDBC, Oracle, JavaScript, HTML

Personal projects:

Project #1: Password Manager
Technologies Used: MYSQL, HTML, PHP, JS, CSS, Bootstrap, AJAX, JQUERY
Description: This is a web application just like any other password manager application this allows users to store, manage, and retrieve passwords for various online accounts. This helps users to generate strong passwords, organize them efficiently, and access them from any device while ensuring data encryption and security.
Key Features:
- Secure login system using email and password.
- Optional two-factor authentication (2FA) for added security.
- Save and retrieve passwords for multiple accounts.
- Categorize/Group passwords based on platforms (e.g., social media, banking, work).
- 256 bit encryption added with custom encryption algorithms to securely store passwords.
- Secure hashing algorithms combined with RSA encryption for user login and authentication.
- User lockout Policy is implemented against brute-force attacks and unauthorized access.
- Create strong, random passwords and passphrases with custom length and character options using password generator.
- This has multiple users access where each user can have multiple passwords, accounts, Notes, contacts, Address saved and able to share them with other users who has an account in this application Securely.
- Users can share passwords, accounts, Notes, contacts, Address with users externally.
- Implemented option to export password, accounts, Notes, contacts, Address data securely.
- Track login attempts and password changes and account info changes.
- Receive alerts for potential security breaches.
- Responsive design for desktop and mobile devices.
- Browser extension for quick access.

Future Improvements:
- Implement OAuth and allow users to sign up using Google, Facebook, etc.
- Implement passkeys and allow multi-factor authentication for secure login.
- Auto-fill functionality for saved credentials.
- Implement windows/Android offline client.

Project #2: MyTube
Description: MyTube is a Video Streaming Web Application that allows users to watch, upload, and manage video content in real-time over the internet. It supports various video formats, adaptive streaming and live streaming capabilities, and interactive features like playlists, user comments, and real time live chat on live streaming.
Technologies Used: HTML, PHP, JS, CSS, Bootstrap, MYSQL, AJAX, JQUERY, Python, FFmpeg
Key Features:
- Secure login system with user roles (Admin, Content Creator, and Viewer).
- Users can upload videos in different formats.
- Automatic video transcoding to multiple resolutions (360p, 480p, 720p, 1080p).
- Automatic process of video metadata and help categorization and tagging for easy organization using Restful and RPC API(s).
- Uses HLS (HTTP Live Streaming) for smooth playback.
- HTML5-based fluid player with support full-screen mode, playback speed control, subtitles and resume playback from last watched position.
- Users can create playlists for their favorite videos.
- Save watch history and resume from where they left off.

- Users can broadcast live events.
- Real-time chat for audience interaction.
- Responsive design for desktop and mobile devices.
- Admins/Content creators can manage users, videos, reports and monitor analytics such as views, watch time, and engagement.

Future Improvements:
- Dynamically adjusts quality based on internet speed.
- Automatic video transcoding for multiple audio tracks.
- Smart search with filters (by category, duration, quality).
- AI-based recommendations based on user preferences.
- Progressive Web App (PWA) support for offline playback and application for android and smart TVs.

Project #3: Simple Mail Queue

Description: Simple Mail Queue is a system that manages the orderly processing and sending of emails. Instead of sending emails immediately, they are placed in a queue and processed in batches, ensuring efficient delivery, load balancing, and retry mechanisms in case of failures.

Technologies Used: MYSQL, HTML, PHP, JS, CSS, Bootstrap, AJAX, JQUERY, PHP Mailer, Python, Java

Key Features:
- Emails are stored in a queue before being sent and are sent in the background without affecting user experience.
- Useful for sending bulk emails (e.g., newsletters, notifications).
- Automatically retries failed email deliveries.
- Stores email status (pending, sent, failed) and provides logs for troubleshooting.
- Uses multiple threads for parallel email processing which improves efficiency and reduces wait time.
- Uses multiple email delivery agents for parallel email processing and to maintain reliable delivery even if one agent fails.
- Emails are stored in a MySQL database before processing which ensures reliable delivery even if the server restarts.

Future Improvements:
- Priority based queuing allows high-priority emails (e.g., password reset, OTP) are processed first and bulk emails (e.g., promotions) are sent at lower priority.
- Allows scheduling emails for future delivery which is useful for reminders, promotions, or system notifications.

Project #4: Simple Reminder App

Description: This is a simple reminder web app, where the user can create, modify, and delete a reminder. The said reminder will be triggered via email/whatsapp according to the date and time set in the reminder.

Technologies Used: MYSQL, HTML, PHP, JS, CSS, Bootstrap, AJAX, JQUERY, Python

Academic Projects:

Project: Detection and Analysis of Diabetic Retinopathy Using CNN

Technologies Used: Image Processing and Machine Learning.

Description: We have designed a prototype to detect whether the person is suffering from Diabetic Retinopathy using fundus photograph images with the help of Image processing algorithms and

machine learning techniques. This model will take input from the fundus image of the eye, process it and produce the output at what stage the person is suffering from Diabetic Retinopathy.

Project: Online proctoring system
Technologies Used: HTML, CSS, PHP, JAVASCRIPT, JQUERY ,MYSQL.
Description: We have designed a web application that has functionalities like adding new students and faculty, assigning students to the faculty, transferring the proctor from one faculty to another faculty, viewing the student's details and performance among faculty, and Hod's of their respective departments. The students can log in, track their performance, and interact with their faculty (assigned proctor).

Project: Simple ChatApp (mini-project)
Technologies Used: HTML, PHP, JS, CSS, Bootstrap, MYSQL, AJAX, JQUERY
Description: Simple ChatApp is a real-time web messaging platform that allows users to send and receive messages instantly. It supports one-on-one conversations, and all the chats are encrypted making communication seamless and secure.

Project: Simple Contacts app (mini-project)
Technologies Used: HTML, PHP, JS, CSS, Bootstrap, MYSQL, AJAX, JQUERY
Description: Simple Contacts App is a web application that allows users to store, manage, and organize their contact information efficiently. It provides a centralized place to save phone numbers, emails, addresses, and other details, making it easy to access and update contacts.

References:
- Available upon request