

Architha Julakanti

(972) 841-1904 | archithareddy29@gmail.com

Summary

Experienced Software Developer skilled in business application analysis, design, development, and maintenance. Proven ability to deliver high-quality, scalable solutions through the full software development life cycle (SDLC), from requirements gathering to implementation and support. Expertise in optimizing performance, ensuring compliance, and automating workflows. Passionate about leveraging technical skills to develop and maintain innovative software solutions that meet business needs.

Education

University of Bridgeport

MS, Computer Science

Connecticut, USA

Jawaharlal Nehru Technological University

BTech, Computer Science

Hyderabad, India

Relevant Courses

- Web-Based Application Development (C#)
- OOPS Through Java
- Cloud Computing
- Data Structures Through C++

Skills

Programming Languages: Java, C, C#, COBOL, .NET

Scripting Languages: Python, JavaScript, Html, PHP, jQuery

Database: MySQL, MS SQL Server, NoSQL (MongoDB)

Web Services: AWS, RESTful

Version Controls: VSS, SVN, GitHub, Git

Operating System: Windows 10, Linux

Work Experience

Reliant Logistics LLC

Software Developer

Texas, USA

Apr 2024 - Present

- Developed and maintained software applications and scripts to automate processes for fleet monitoring, improving efficiency and reducing manual errors using Python, MySQL, React, GitHub, AWS (Lambda, S3), and JavaScript.
- Configured custom software for preventive maintenance and repairs, monitoring working hours, and reconciling with payroll systems, enhancing operational accuracy and efficiency
- Managed custom reporting, security groups, and business process configuration, achieving 88%+ report accuracy, 100% compliance with security policies, and full alignment with business requirements while developing and configuring system interfaces
- Supported software systems in the production environment and resolved issues by determining root causes and implementing solutions, ensuring system stability and user satisfaction
- Built and integrated a unit test suite with an automated testing and deployment pipeline to deploy applications to the cloud, enhancing deployment speed and reliability

TCS

Python Developer

Hyderabad, India

Sep 2021 - Jul 2022

- Developed applications using Python, Django, Angular, CSS, HTML, TypeScript, and Node.js
- Built and managed servers using AWS, achieving a 72%+ success rate in importing necessary volumes, launching EC2 instances, creating security groups, implementing auto-scaling, configuring load balancers, and integrating Route 53 and SNS, optimizing performance and reliability
- Utilized regular expressions to match patterns in data processing tasks, improving data accuracy and consistency
- Implemented GUI using PyQt for users to create, modify, and view reports based on client data, enhancing user interaction and report accessibility
- Handled database access and data transmission using RESTful web services, ensuring efficient data flow and system integration
- Used version control systems like Git to manage and update code on GitHub, tracked tasks with Jira to improve task completion rate to over 90%, and ensured code quality through regular reviews

TCS

Systems Engineer

Hyderabad, India

Jun 2020 - Jun 2021

- Participated in each stage of the Software Development Cycle (SDLC), including gathering requirements, designing, developing, and conducting system integration and user acceptance testing, which ensured project milestones were met on time
- Built database models, APIs, and views using Python to create an interactive web-based solution, enhancing user engagement and system functionality
- Utilized Python-MySQL connector and MySQL DB package to retrieve information, streamlining data retrieval processes and enhancing data-driven decision-making
- Maintained version control using GIT and sent release notes for each release, ensuring clear communication and version tracking, Debugged projects monitored on JIRA, enhancing system reliability and performance

Projects

Summer Detection Fake User Identification

- Implemented action permissions based on user analysis, ensuring legitimate users could perform specified actions while minimizing spam and fraudulent activities, akin to Facebook's approach to user verification and security
- Utilized advanced algorithms for behavior analysis and robust validation mechanisms, mirroring the strategies employed by major social media platforms to enhance user experience and protect against fraudulent behavior

Suspicious Activity Detection

- Leveraged machine learning to identify suspicious activity in CCTV footage, creating a real-time monitoring system that reduced manual review time by over 50% and included a user-friendly interface for faster threat assessment and reporting
- Trained a Convolutional Neural Network (CNN) on a large dataset of images to classify video frames as "suspicious" or "normal," achieving high accuracy in detecting anomalies. Integrated the CNN model with existing CCTV infrastructure to ensure seamless deployment and real-time analysis, aligning with best practices in surveillance technology

Legacy System Modernization for Payroll Management

- Developed a web-based front-end application using ASP.NET to allow employees to access payroll details and submit queries in real-time.
- Integrated the front-end with a COBOL-based backend system to process payroll calculations and ensure seamless communication between modern and legacy platforms.
- Migrated data from COBOL flat files to a relational database using SQL, improving query efficiency and reporting capabilities.

Certifications

- **Google Cybersecurity Professional Certificate**
- **Udacity AWS Machine Learning Foundation Course**
- **Full Stack Data Science & AI Certification**
- **Java Full Stack Professional Course (EduBridge and Capgemini)**
- **Android & IOS Workshops (Code Beat at Bits Pilani, India)**