

Eshwar Chandra Vidhyasagar Thedla

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EXPERIENCE

Software Developer-2, United Wholesale Mortgage LLC | Pontiac, Michigan

Feb 2024 - Present

- **PDF Generation Microservice:** Developed a C# microservice to dynamically generate PDFs using Aspose, integrated Azure CosmosDB and Redis through the Cache-Aside pattern, supporting 1K daily requests in production. Complied with MISMO standards and optimized XML code for DocMagic, improving document generation accuracy
- **Microservice Architecture:** Orchestrated a C# microservice that consumes Kafka messages, retrieves email templates and loan data from Azure SQL, and scales to handle 1.2M peak requests. Streamlined email delivery automation and ensured API version compatibility for seamless microservice deployments
- **ADFS and Authorization Client Integration:** Integrated Active Directory Federation Services (ADFS) to securely route document signatures (package marks) to clients, while implementing Microsoft Authentication Library (MSAL) for secure access to external service endpoints, managing token acquisition and renewal. Refined repository methods using LINQ and SQL queries via Entity Framework Core to optimize data retrieval and stored procedure execution
- **Credit Inquiry Optimization:** Streamlined the credit inquiry process, ensuring 100% data integrity during Automated Underwriting System runs. Architected Kafka message queues to manage credit data, reducing processing costs by 20%
- **Test Automation and Validation:** Spearheaded unit test development with xUnit, introduced mutation testing using Stryker.Net, and implemented integration tests using Testcontainers and WireMock to ensure code reliability

Software Dev Engineer, Amazon.com | Cupertino, California

Jun 2022 - Feb 2024

- **User Experience Enhancement:** Enhanced the "Buy Now" checkout page with JSP and Java, leading to a 25% increase in conversion rates and improving the user experience for millions globally
- **High-Traffic System Optimization:** Monitored and maintained a distributed system, ensuring 99% uptime during "Prime Day," managing 112K sales per minute and reducing latency by 12%, providing seamless transactions
- **API Migration and Security Upgrades:** Spearheaded API migration for Checkout and third-party wrappers, achieving a 30% reduction in API-related issues. Strengthened security by extending Multi-Factor Authentication (MFA) across the EU region, resulting in an 80% decrease in unauthorized access incidents
- **Testing and Coverage Expansion:** Amplified testing coverage by 30% through Transport Layer Security certification, improving reliability across web browsers and simulators for cross-platform testing
- **Operational Support and Incident Resolution:** Delivered vital on-call support to minimize critical incidents, ensuring uninterrupted system reliability during high-demand periods. Resolved over 100 defects, streamlining the checkout flow and reducing user clicks by 20%, thereby improving the overall user experience

Graduate Assistant, North Carolina State University | Raleigh, North Carolina

May 2021 - May 2022

- **ML Model Development:** Engineered a Random Forest Regression model in Python, training it daily with 350+ inputs from weather services for ShellCast, aiding 20K+ shellfish growers in making informed harvesting decisions. Optimized the forecasting model, achieving 80% accuracy, and deployed a Flask-based web app for real-time updates
- **Web Master:** Managed and updated the departmental website using WordPress, ensuring accuracy and usability for professors and students by regularly updating content and resolving web-related issues

Software Engineer, Deloitte LLC India | Hyderabad, India

Jul 2019 - Dec 2020

- **Data Handling Automation:** Automated SQL Server data loading using Python, reducing manual record handling and boosting dashboard performance by 97%
- **Dashboard Development:** Led the creation of Quicksight dashboards for 58 country developers, reducing manual tax analysis effort by 98.5%, and delivered user-friendly technology roadmaps
- **Workflow Automation:** Automated tax calculation workflows with Alteryx and Python, reducing manpower by 80% and received SPOT Award for delivering strategic solutions

ACADEMIC PROJECTS

Full-stack Web Application | React | NodeJS | MongoDB (May 2022 – Jun 2022): Developed an Instagram-inspired social media platform with user authentication, authorization, and file management. Enabled users to create and share content, fostering engagement and boosting interaction by simplifying the user interface and experience

Open-Source Contribution to Expertiza | Object Oriented Design | Ruby on Rails (Jan 2022 – May 2022): Revitalized and stabilized a cloud-native reputation web service by refactoring the controller and resolving broken features, adhering to SOLID principles. Enhanced maintainability through Ruby DRY principles and Capybara tests, increasing code coverage by 30% by eliminating redundant code and adding comprehensive unit and functional tests

SKILLS SUMMARY

Programming Languages: Python, Java, C#, JavaScript, Ruby, TypeScript

Libraries and Frameworks: .NET, ASP.NET, Spring Boot, Angular, React, jQuery, Node.js, Express, Flask, Ruby on Rails, Django, REST, JSON, AJAX, WordPress

Tools: Kubernetes, Git, Jenkins, Azure, BitBucket, Docker, Dynatrace, Visual Studio, Alteryx, Amazon Quicksight, Kafka, Terraform, Postman, ThunderClient

Databases: MySQL, SQLite, PostgreSQL, OracleDB, CosmosDB, MongoDB, MariaDB

EDUCATION

North Carolina State University

Masters of Computer Science

Osmania University

Bachelors of Engineering - Computer Science

Raleigh, North Carolina, USA

Jan 2021 - May 2022

Hyderabad, India

Aug 2015 - May 2019