

UMANG BHATT

Expert Software Engineer

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Professional Summary

- Have 10+ years of experience in software development, maintenance, and surrounding activities.
- Experienced with product development, performance tuning and product re-write (VB6 and COM+ base NTier Application to a web-based application) and sustained engineering (level three).

Key Skills

- Outside-In Test-driven Development (TDD)
- Unit Testing and Mocking (JustMock)
- Agile Software Development
- Sprint estimation and planning
- Software performance engineering
- **Frontend/UI:** VB6 and Angular
- **Backend technologies:** Asp .Net Core, C#, API development, JSON, Serilog, Azure Dev. Ops
- **Database:** Microsoft SQL Server
- **Version Control:** Azure Dev. Ops with Git and TFS
- **Container/Cloud technologies:** Azure Service Fabric, Docker containers
- **MBTI result:** [ISTJ \("THE LOGISTICIAN"\)](#)
- **Top 5 Gallup strengths:** [Learner](#), [Connectedness](#), [Intellection](#), [Maximizer](#), and [Deliberative](#)
- **Other tools:** ProcDump, Windows Performance Analyzer/Recorder, ProcMon, ANTS profiler, RedGate SQL Monitor

Experience

Senior Technical Lead at HCL Tech. – Oct 2023 to Present

- I was the first developer to restart the development after getting the source code from Uber. I figured out the development environment setup by reading the code (Data Execution Prevention, CLR in SQL, etc.) and quickly delivered value. Started releasing application and database fixes.
- I delivered extensive documentation in Confluence for all the work that I was doing and also encouraged other developers to do the same.
- Helped other products with starting development written in PHP and Java. Helped some developers who were starting with these languages for the first time.
- Helped peers understand complex issues involving performance, database transactions, and isolation levels.
- Collaborated with C++ engineers when the problem was in the scheduling algorithm and figured out fixes.

Software Craftsperson at Incubyte – May 2022 to Oct 2023

- Working on a full-stack application developed in Angular, Java, GraphQL, Liquibase and Microsoft SQL Server. We followed TDD, Agile, every sprint delivery, and other modern practices.
- When I joined, we kept getting the system down and slow events because of deadlocks and excessive disk usage. Based on feedback from the RedGate SQL monitor and query store, schema changes (table structure and index changes) were implemented in the SQL server database to match the user's expectations, bringing the down events to nearly zero. Once the system was stable, I trained peers to read the query execution plan using SentryOne/SolarWinds.
- Monitored the application via Azure App Insights and RedGate regularly to monitor degrading performance and reoccurring exceptions in production. I initially addressed some of the exceptions from production and then distributed items to other teams.

Expert software engineer at Allscripts India LLC – September 2013 to April 2022

- Technical lead in the [tiger team](#) for product re-write. ~2.8 MLOC WinForm application (VB6 and COM+ base NTier Application).
- Worked on Asp.Net core and Docker/Service fabric (on-premises). Migrating old C# COM+ code to API backend based on C# Asp .Net Core and REST.

- Implemented Auth server based on IdentityServer4, containerised it and integrated it with the VB6 shell to make the web API calls possible.
- Working with the Architect, Security team, and development team. Recommend coding patterns, make architectural changes, document, and communicate the decisions.
- Unit testing patterns, including mocking, dependency injection, etc.
- Reading SQL performance graphs conveying the problematic (high CPU/disk) areas to the **DBAs**.
- Skilled at digging up performance traces, identifying bottlenecks, and making fixes. Familiar with performance tools like Windows Performance Recorder/Analyser, Redgate Ants profiler, etc.
- Built the first iteration of builds on Azure team foundation system TFS for web backend and angular application.
- Basics on MS Build to make tweaks if needed.
- Technical training across teams.
- Working with vendors to figure out the bugs in their product or understand the gaps in the documentation (for example, Microsoft).
- Started my career with bug fixing/maintenance on a WinForms application where the user controls were written in VB6 and the shell/MDI form in WPF. The backend was in VB6 COM+, which was migrated to C# COM+. We were involved with re-creating defects, making code changes to fix the defects, delivering the hotfix installer, and analysing the root cause.
- Was part of the L3 team in the initial years. Continued guiding the L3 team even after moving to development for issues like reading process dump using DebugDiag to understand situations like hang, crash, etc. Implemented fixes to resolve the hangs when the problem was in our code. When the issues were with Microsoft/third-party code, I contacted them and got a fix delivered.
- Led initiative to generate symbols (.pdb) for everything and asked the CMRE to implement a symbol server, making it easier for us to analyse the production dumps.

Education

- **MSc IT – Charusat University – Changa, Gujarat – 2013**