

Senior Software Engineer with over 7 years of expertise in designing and developing enterprise-grade applications across web, desktop, mobile, API, and cloud platforms using C#, .NET, and Azure technologies. Proficient in building scalable microservices, distributed systems, and healthcare interoperability solutions (HL7 FHIR), with experience in IoT platforms, real-time data processing, Monitoring and intelligent transportation systems. Skilled in leveraging Azure Service Fabric, Azure Service Bus, Azure Functions, Docker, Kubernetes, Redis, SignalR, SQL Server, Terraform, and DevOps practices to drive efficiency and innovation. Committed to advancing cloud-native architecture and platform engineering while delivering high-performance software solutions that meet evolving business needs.

Experience

2025-04 - Current	Senior Software Engineer Altera Digital Health (Harris Computer Corporation), Remote, India Technologies: C#, .NET Framework 4.8, .NET 6/8, ASP.NET Core, Azure Service Fabric, Azure Functions, Azure Service Bus, Azure Cosmos DB, Azure Key Vault, Azure AD, SQL Server, Redis, Docker, Kubernetes, Terraform, Azure DevOps, GitHub Actions, HL7 FHIR, REST APIs, Microservices, Event-Driven Architecture, Application Insights, Azure Monitor, KQL, Grafana, Logic Monitor, OAuth 2.0, SAML, X.509 Certificates,MSSQL,ETLs. - Developed scalable cloud-native healthcare applications using C#, .NET, Azure Service Fabric, SQL Server, and Azure Cosmos DB. - Built microservices and event-driven solutions using Azure Service Bus, Azure Functions, Event Grid, Redis, and REST APIs for high-volume healthcare workflows. - Developed HL7 FHIR integrations to enable secure interoperability with EHR systems and clinical applications. - Implemented secure authentication and authorization using Azure AD, Managed Identity, OAuth 2.0, SAML, JWT, and X.509 Certificates.
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BHAWANI SINGH

Sr. Software Engineer

Contact

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Https://folioarea.github.io/
WWW
<u>Bold Profile</u>

Skills

AI & Automation : AI Coding Agents (MCP), Prompt Engineering, AI-Assisted Development, Claude, Cowork, Copilot
Frameworks & Technologies : NET Framework, .NET Core /

- Automated CI/CD pipelines and infrastructure using **Azure DevOps, GitHub Actions, Docker, Kubernetes, and Terraform.**
- Improved application performance and reliability through **Redis caching, SQL optimization, monitoring, and centralized logging** using Application Insights, Azure Monitor, Grafana, LogicMonitor, KQL, and Serilog.
- Developed automated unit and UI tests using **XUnit, NUnit, Moq, Selenium and Playwright**, ensuring high software quality.
- Leveraged **AI Coding Agents (MCP), GitHub Copilot, and Claude** to accelerate development and improve engineering productivity.

2023-04 -
2025-04

Software Engineer

Applied Information, Chandigarh

Technologies: .NET 6/7/8/9, ASP.NET Core, WPF, MAUI, SignalR, Redis, Docker, Linux, Google Maps, MQTT, TCP/UDP, Web Sockets, Nginx, MODBUS, CV2X, JWT, ASP.NET MVC, Grafana, IOT.

- Architected and developed **Intelligent Transportation System (ITS)** solutions using **.NET**, enabling real-time telemetry processing from connected vehicles, traffic controllers, and IoT devices.
- Built distributed, low-latency communication platforms using **SignalR, Redis, MQTT, TCP/UDP, and Web Sockets** for web, desktop, mobile, and backend services.
- Developed cloud-connected REST APIs, hardware integration services, and **Google Maps**-based applications for smart traffic management and connected mobility.
- Implemented secure third-party integrations, including **Waze** traffic data publishing, using **JWT authentication** and scalable REST APIs.
- Improved scalability and reliability through **Docker, Linux, Nginx**, and **Grafana**-based monitoring and observability.
- Developed simulation and virtual hardware frameworks to accelerate testing and reduce dependency on physical traffic infrastructure.

.NET 5-9, ASP.NET MVC, Web API, Blazor, WPF, Xamarin, .NET MAUI, Entity Framework, DO.NET Dapper, MVVM.

Cloud & Azure : Azure Service Fabric, Azure Functions, Azure Service Bus, Azure Cosmos DB, Azure Storage, Azure Blob Storage, Azure Key Vault, Azure App Configuration, Azure Event Grid, Azure Notification, Hubs Azure Monitor, Azure Application Insights, Azure IoT Hub, Azure AD (Managed Identity), Logic Apps.

Databases : SQL Server, PostgreSQL, MongoDB, Redis, ETL.

Architecture : Microservices, Distributed Systems, EventDriven Architecture, REST APIs, Background Services, Cloud-Native Applications, Enterprise Integration, Platform Engineering.

Security : OAuth 2.0, SAML 2.0, WS-Trust, WSFederation, X.509Certificates, JWT Authentication, Azure AD Authentication, Managed Identity.

DevOps & Infrastructure : Azure DevOps, GitHub Actions, Docker, Kubernetes, Terraform, CI/CD, Infrastructure as Code (IaC), Nginx.

2019-09 -
2023-03

Software Developer

High Alt. Info. Solutions Pvt. Ltd.

Technologies: C#, .NET Framework 4.8, .NET Core 5/6/7, ASP.NET Core, Blazor WebAssembly, WPF, Xamarin.Forms, .NET MAUI, SQL Server, PostgreSQL, Azure IoT Hub, MQTT, MODBUS, MVVM, XAML, DevExpress, Syncfusion, Telerik.

- Developed enterprise **web, desktop, mobile, and background service** applications using **.NET Framework, .NET Core, Blazor WebAssembly, WPF, Xamarin.Forms, and .NET MAUI** for customers across India and Europe.
- Built cross-platform Android and iOS applications using **Xamarin.Forms** and **.NET MAUI** with **MVVM**, integrating scalable REST APIs and backend services.
- Developed Windows/Linux background services, REST APIs, and database solutions using **SQL Server** and **PostgreSQL** for enterprise and industrial applications.
- Integrated industrial hardware and IoT devices using **Azure IoT Hub, MQTT, and MODBUS**, enabling real-time monitoring, sensor communication, and automation.
- Designed rich UI experiences using **Blazor WebAssembly, DevExpress, Syncfusion, and Telerik**, including dashboards, mapping, payment integration, and real-time data visualization.
- Delivered solutions across **education, industrial automation, renewable energy, IoT, and enterprise mobility** domains for customers in **India and the Netherlands**.

Education

2025-12

Certification

CloudThat (Microsoft Partner) - Shimla

- Professional cloud and DevOps training focused on Microsoft Azure, containerization, infrastructure automation, and system administration.
- Coursework Included:

Messaging & Real Time :

SignalR, Azure Service Bus, MQTT, TCP/IP, UDP, WebSockets, MODBUS, CV2X.

Monitoring & Logging :

Grafana, LogicMonitor, Application Insights, Azure Monitor, KQL, Serilog, CheckmarksWeb, SonarCube.

Testing :

xUnit, NUnit, Selenium, Mog, AccelQ, Playwright.

Tools : Git, GitHub, Visual Studio, SSMS, DevExpress, Syncfusion, Telerik, VSCode, Postman etc

Programming Languages :

C#,SQL ,T-SQL, JavaScript, HTML5, CSS, XAML,jQuery.

LANGUAGES

ENGLISH Advanced

HINDI Native

- Microsoft Azure Fundamentals (AZ-900)
- Microsoft Azure Administrator (AZ-104)
- Microsoft Azure DevOps Engineer (AZ-400)
- DevOps Essentials
- Docker Essentials
- Kubernetes Essentials
- Terraform Essentials
- Linux Fundamentals
- Windows Fundamentals
- Networking Fundamentals
- IT Fundamentals
- Virtualization & Cloud Fundamentals

2021-06

MBA: HR and Marketing

Himachal Pradesh University - Shimla (H.P.)

2016-06

B.Tech: Computer Science and Engineering

GGSIU - New Delhi

2013-06

Diploma: Electronics and Communication

HP Technical Board of Education - Himachal Pradesh

2010-03

DAV Lakkar Bazar Shimla - Shimla

affiliated to Central Board of Secondary Education

HOBBIES AND INTERESTS

Troubleshooting, Playing snooker and pool,
Playing piano and flute, Learning new things and
doing logical things

WEBSITES AND SOCIAL LINKS

- **Linkedin :**
<https://www.linkedin.com/in/bhawani-singh-146041283>
- **Profile :** <https://bold.pro/my/bhawani-singh-260710163453/672r>
- **Portfolio :** <https://folioarea.github.io/>
- **Github :** <https://github.com/BhawaniSinghBS>