

# Hariprasad Kasavajjala

Senior .NET & Cloud Developer

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<https://github.com/hpkhariprasad>

## PROFESSIONAL SUMMARY

- Results-oriented Senior Software Engineer with 8 years of experience designing and delivering scalable, high-performance Windows, web, and cloud applications.
- Proven expertise in .NET 8, WPF, ASP.NET Core, .NET MAUI, and Web APIs, with a strong track record of modernizing enterprise systems using Azure and AWS.
- Good knowledge of React and front-end technologies to build full-stack solutions that meet business needs.
- Hands-on experience designing and orchestrating AI-driven workflows using OpenAI models, Semantic Kernel, LangChain, and Retrieval-Augmented Generation (RAG) for real-world production use cases.
- Skilled in optimizing system performance, context management, and embedding-based retrieval to deliver reliable and intelligent user experiences.
- Strong background in cloud-native architecture, microservices, and event-driven systems, with ownership of end-to-end solution design and delivery.
- Passionate about building scalable, secure, and accessible AI-powered solutions that bridge enterprise software engineering with applied machine intelligence.

## TECHNICAL SKILLS

**Windows Development:** .NET Framework, .NET Core, .NET 8, C#.NET, WPF, XAML, UWP, Windows Applications

**Web & API Development:** ASP.NET Core MVC, React, Web API, Blazor, .NET MAUI, RESTful Services

**Cloud & DevOps:** Azure Cloud, Azure DevOps, CI/CD, AWS Lambda, EC2, S3, WAF, Cloud-native Architecture

**Database & Analytics:** SQL Server, MySQL, PostgreSQL, Power BI, Rally

**AI & LLM:** OpenAI API, Azure OpenAI Service, LangChain, Semantic Kernel, Prompt Engineering, LLM Fundamentals, Vector Databases (Redis / Pinecone), Retrieval-Augmented Generation (RAG), AI-assisted Application Development, MLOps Awareness, GitHub Copilot

**Tools & Practices:** GitHub, Agile / Scrum, Application Modernization

## PROFESSIONAL EXPERIENCE

### NCR Voyix

Apr 2024 - Present

Software Engineer - 3

- Owned the design and development of a production-grade self-checkout WPF application, focusing on performance, accessibility, and reliability at scale.
- Integrated AI-driven capabilities using OpenAI APIs to enhance user workflows and operational efficiency across retail environments.
- Led modernization initiatives by migrating legacy components to .NET 8, improving scalability, maintainability, and long-term system stability.
- Collaborated with cross-functional teams to translate business requirements into scalable technical solutions and reliable production releases.

## Wipro Ltd

Dec 2021 - Apr 2024

### Senior Software Engineer

- Led the design and development of the ASTRA platform supporting real-time vessel maintenance and structural review workflows.
- Architected serverless components using AWS Lambda to enable scalable and resilient background processing.
- Improved system performance and reliability through targeted refactoring, database optimization, and efficient resource utilization.
- Partnered with business stakeholders to translate domain requirements into scalable, production-ready solutions.

## Carrier Technologies Pvt Ltd

Jul 2020 - Dec 2021

### Engineer

- Contributed to the development and maintenance of the SFFL-OnPortal platform supporting electronic lock systems for the hospitality industry.
- Built key platform features such as KPI Tester and virtual RMS to improve development efficiency and system validation.
- Designed and implemented a data migration tool to securely transfer data from SQL CE to SQLite with zero data loss.
- Ensured system reliability through hardware integration, unit testing, and peer code reviews.

## Technolabs Software Solutions Pvt Ltd

Feb 2018 - Jul 2020

### Software Developer

- Developed and maintained web and UWP applications for multiple client projects with a focus on performance and usability.
- Optimized database queries and application workflows to improve system responsiveness.
- Supported production deployments, troubleshooting, and documentation to ensure stable releases.

## KEY PROJECTS

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### SSCO NextGenUI

*A next-generation self-checkout platform delivering fast, accessible, and reliable retail experiences at scale.*

#### **Tech Stack:** WPF, .NET 8, C#, OpenAI API, AWS

- Designed and developed high-throughput UI components for production self-checkout systems used in high-traffic retail environments.
- Integrated AI-driven features using OpenAI APIs to improve user interaction, accessibility, and operational efficiency.
- Led the migration from .NET 4.7 to .NET 8, improving performance, maintainability, and long-term scalability.
- Collaborated with cross-functional teams to ensure stable releases and continuous system reliability.

### ASTRA

*A mission-critical platform enabling real-time vessel maintenance and automated structural analysis for naval engineering teams.*

#### **Tech Stack:** .NET 6, ASP.NET Core, AWS Lambda, PostgreSQL, Power BI

- Developed core application features supporting real-time data processing and engineering workflows.
- Designed scalable background processing using AWS Lambda to support resilient and fault-tolerant execution.
- Improved system performance and reliability through targeted optimizations and efficient data access strategies.
- Built CI/CD pipelines and analytics dashboards to support reliable deployments and operational visibility.

## SFFL-OnPortal

A centralized platform for managing electronic lock systems integrated with hotel Room Management Systems (RMS).

**Tech Stack:** WPF, .NET Core, ASP.NET MVC, C#, SQLite

- Developed and maintained application features supporting electronic lock management workflows.
- Built internal tools such as KPI Tester and Virtual RMS to streamline development and validation processes.
- Implemented a secure data migration solution from SQL CE to SQLite with zero data loss.
- Ensured system reliability through hardware integration, unit testing, and structured documentation.

## ACHIEVEMENTS & CERTIFICATIONS

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- Filed a Patent on MISSING PROPERTY ACCESS TOOL DETECTION IN LOCK BOX (US20230252878A1)
- A Patent on Accessibility features related to Windows Applications is under review
- Certified Azure Fundamentals (AZ-900)
- Completed Microsoft .NET MAUI Trophy Challenge
- Received multiple POB awards
- Resolved critical business issues through TopCoder challenge platform