

JASMEET SINGH

SOFTWARE ARCHITECT

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[GITHUB](#) | [LINKEDIN](#) | [PORTFOLIO](#)

SUMMARY

Seasoned Software Architect with 6+ years of expertise in .NET, IoT systems, and AI integrations. Experienced in modernizing legacy architectures, building real-time data platforms, and deploying intelligent NLP solutions to drive automation and business efficiency.

CORE SKILLS

Languages:	C#, Python, JavaScript/TypeScript, C
Frameworks:	.NET (Web Api, MVC, Hybrid), FastApi, Flask, LangChain, Angular
DevOps & Cloud:	Docker, Azure DevOps, Github Actions, Deployment Scripts.
DB/ORMs:	SQL Server, PostgreSQL, MongoDB, ADO.NET, Dapper, EF Core
AI/ML:	Lang Chain, RAG, NLP, OpenCV
IOT:	Arduino, ESP32, MQTT, Modbus
Tools:	VS Code, Visual Studio, Rider, Postman/Insomnia, Playwright/Selenium (C#)

WORK EXPERIENCE

Software Architect – Revalsys Technologies

Mar 2024-Present

- Spearheaded .NET-based R&D initiatives for rapid prototyping and system innovation.
- Built Outlook & Visual Studio plugins to streamline developer workflows.
- Modernized legacy platforms by migrating to .NET hybrid architectures, improving maintainability.
- Integrated AI/ML workflows for automation and real-time insights.
- Developed PoCs for IoT debugging tools and context-aware assistants.

Manager (IT/EDP) – Garuda Power Pvt. Ltd.

Jan 2020-Feb 2024

- Directed IT operations including domain, server, and release management.
- Migrated legacy VB.NET ERP to MVC/API-based hybrid architecture, reducing downtime.
- Introduced microservices, async APIs, and caching → boosting API response speed by ~40%.
- Enhanced project scalability with high-performance architectures.

Software Engineer – Garuda Power Pvt. Ltd

July 2019-Dec 2019

- Built a PHP-based donation/project tracking system for Rotary Club of Asansol.
- Revamped legacy websites into responsive MVC-based applications, improving UX and performance.

EDUCATION

B Tech, Computer Science & Engineering

Silicon Institute of Technology – GPA: 7.4

PRODUCTS BUILT / SAAS INITIATIVES

Founder and Full stack developer – lingyard.com

Sept 2024 - Present

A modern link-in-bio and micro-portfolio SaaS platform that empowers creators and professionals to unify their digital presence, organize content, and gain audience analytics.

Tech Stack: .NET (Core API & Worker), FastAPI, Next.js, LangChain, EF Core, PostgreSQL, Redis, Azure Blob, GitHub Actions

KEY PROJECTS

Real-Time IoT Data Platform

- Designed a fault-tolerant .NET + MQTT listener system with Cassandra storage and Redis caching for continuous IoT data processing.

Document AI RAG Workspace

- Built a secure multi-user workspace for document indexing & retrieval with LangChain.
- Delivered context-aware AI chats for both global and document-specific insights.

Video Conferencing System (Plug & Play)

- Developed WebRTC + SignalR video calling platform with live signaling and user-state tracking.
- Integrated seamlessly into enterprise systems, supporting multi-user sessions.

Context-Aware Chatbot (Ticket Automation)

- Automated support ticket creation with NLP intent classification & dynamic JSON generation.
- Reduced manual workload by ~60% through integration with existing systems.

FaceAuth (Biometric Security)

- Implemented OpenCV-based face recognition + liveness detection for secure access workflows.
- Researching on anti-spoof solution via real-time detection, enhancing system security.

Workflow Management Engine

- Architected a modular workflow engine with step-wise execution and role-based controls.

Other Projects

- CLI Device Control Suite:** .NET + custom CLI parsing for hardware control, replacing licensed tools.
- ProjectAssist Suite:** Outlook add-in and standards-enforcement validator to improve dev workflows.
- Multi-level Caching architecture:** Action filter-based caching with Redis/Mongo to speed up APIs.

KEY ACHIEVEMENTS

- Modernized multiple legacy systems**, cutting maintenance costs and improving performance.
- Reduced support workload by 60%** with AI-powered automation solutions.
- Optimized enterprise APIs**, delivering **40% faster response times** through caching/microservices.
- Eliminated licensing costs** by developing in-house CLI-based device control suite.