Bhupendra Singh - AI Engineer Resume

BHUPENDRA SINGH

AI Engineer | Enterprise AI Systems Architect | Full Stack Platform Engineer

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PROFESSIONAL SUMMARY

AI-focused Software Architect with **12+ years** of experience designing and delivering intelligent enterprise platforms. Expert in integrating **Large Language Models, AI-assisted development pipelines, and prompt engineering** into production-grade systems serving thousands of users.

Led the architecture and implementation of **AI-augmented HRMS, Job Portals, ERP systems, and Algorithmic Trading platforms** — combining deep .NET/Angular expertise with modern AI capabilities to automate workflows, enhance decision-making, and accelerate development velocity.

Proven track record of building **scalable, secure, and AI-ready enterprise systems** with emphasis on high-performance APIs, real-time data processing, and intelligent automation. Passionate about applying AI to solve complex business problems at institutional scale.

CORE COMPETENCIES

AI & Machine Learning

- **LLM Integration**: ChatGPT API, Jules AI, Claude/Antigravity, Gemini
- **Prompt Engineering**: System prompts, chain-of-thought, structured outputs
- **AI-Assisted Development**: AI-driven code generation, workflow automation
- **Intelligent Systems**: AI-powered job matching, CV parsing, dynamic form generation

Backend Engineering

- **.NET Ecosystem**: .NET Core 6/7/8, ASP.NET Web API, Entity Framework, Dapper
- **Architecture**: Microservices, Clean Architecture, CQRS, Domain-Driven Design
- **Performance**: Redis caching, query optimization, stored procedure frameworks

Frontend Engineering

- **Frameworks**: Angular 9-19, React.js, Redux, Material-UI
- **Modern Practices**: SSR/SSG, responsive design, component architecture
- **Data Visualization**: Chart.js, High Charts, real-time dashboards

Cloud & DevOps

- **Azure**: Functions, App Services, Azure SQL, Blob Storage
- **Infrastructure**: IIS deployment, CI/CD pipelines, Git, TFS

Databases

- **SQL Server**: 2015-2022, query optimization, complex stored procedures
- **Patterns**: Multi-tenant isolation, dynamic schema generation

Enterprise Architecture

- **Patterns**: Metadata-driven CRUD, plugin architectures, workflow engines
- **Security**: OAuth 2.0, SSO, ADFS, role-based access control
- **Integration**: RESTful APIs, WCF, real-time sync engines

AI EXPERIENCE HIGHLIGHTS

🤖 AI-Augmented HRMS Platform

Role: Lead Architect | **Duration**: Feb 2024 – Present

Designed and built an **AI-enhanced Human Resource Management System** featuring intelligent automation across the employee lifecycle.

AI Innovations: - Integrated **LLM-powered job description generation** using prompt engineering to create role-specific, compliance-ready JDs - Built **AI-assisted form rendering engine** — metadata-driven dynamic forms generated with AI-augmented schema definitions - Developed **intelligent master data management** using stored-procedure-based Dynamic Master CRUD system with AI-driven validation rules - Implemented **prompt-based workflow automation** for onboarding, leave management, and performance tracking

Tech Stack: .NET Core Web API, Angular 18, Entity Framework, Dapper, SQL Server, ChatGPT API, Jules AI

Impact: Reduced manual HR data entry by 60%, accelerated onboarding workflows by 40%

🎯 AI-Powered Job Portal (JobMQ.com)

Role: Full Stack Architect | **Duration**: 2024

Architected an **intelligent recruitment platform** with AI-driven candidate matching and automated screening.

AI Innovations: - Built **AI-powered CV parsing engine** for structured data extraction from unstructured resumes - Implemented **intelligent job-candidate matching** using semantic analysis and skill taxonomies - Created **AI-generated job recommendations** based on user behavior and profile analysis - Developed **prompt-engineered interview question generators** for hiring managers

Tech Stack: React.js, Redux, .NET Core Web API, Entity Framework, SQL Server 2017, Azure, Material-UI

Impact: Improved candidate-job match accuracy by 35%, reduced recruiter screening time by 50%

📊 Algorithmic Trading Terminal with AI Analytics

Role: System Architect | **Duration**: 2025 – Present

Engineered a **professional-grade trading terminal** with AI-assisted strategy development and real-time market analysis.

AI Innovations: - Developed **AI-driven trade signal analysis** with configurable strategy patterns - Built **prompt-based strategy documentation generator** for institutional compliance - Created **intelligent position sizing recommendations** based on risk parameters - Implemented **AI-assisted debugging pipelines** for strategy backtesting

Tech Stack: C# WPF, Python, ZeroMQ, LiteDB, CoreChart, Options pricing models

Impact: Enabled 5x faster strategy iteration, improved backtesting accuracy

🏙️ Intelligent Enterprise Asset Management

Role: Technical Lead | **Duration**: 2021 – 2024 (Pinkerton)

Led development of an **AI-augmented enterprise asset tracking system** with predictive maintenance capabilities.

AI Innovations: - Designed **intelligent asset discovery workflows** with automated classification - Built **predictive maintenance scheduling** using pattern analysis - Implemented **AI-assisted compliance verification** for employment background checks - Created **smart notification routing** based on workflow context analysis

Tech Stack: React.js, Redux-saga, .NET Core, Azure Functions, Entity Framework, SQL Server

Impact: Reduced asset tracking errors by 70%, improved compliance verification speed by 45%

ENTERPRISE PROJECT PORTFOLIO

Enterprise Supplier Portal — UFlex Ltd.

Challenge: Legacy supplier communication causing delays and errors in procurement **AI Enhancement**: Designed intelligent PO routing and automated Oracle database synchronization **Tech Stack**: RESTful Web API, MVC 5, Entity Framework, SQL Server, Oracle integration **Impact**: Streamlined supplier onboarding, reduced PO processing time by 30%

CRM Platform — FICCI (Federation of Indian Chambers of Commerce and Industry)

Challenge: Complex membership management across multiple organizations **AI Enhancement**: Built intelligent event management and membership recommendation engine **Tech Stack**: ASP.NET, WCF Services, Entity Framework, SQL Server, Android/iOS APIs **Impact**: Served 10,000+ members with automated engagement workflows

Institute Management System — Prakash Institute

Challenge: Disparate systems for student lifecycle management **AI Enhancement**: Centralized data platform with intelligent scheduling and automated reporting **Tech Stack**: ASP.NET, SQL Server, Windows/Web dual-platform architecture **Impact**: Unified administration across multiple campuses

CAREER HISTORY

AI Solutions Architect | Freelance

Feb 2024 – Present - Architecting AI-augmented enterprise platforms using LLM APIs and prompt engineering - Built production AI systems serving HRMS, Job Portal, and Trading domains - Pioneered AI-assisted development workflows using Claude, ChatGPT, and Jules AI

Full Stack Developer (.NET) | Pinkerton India

Dec 2021 – Jan 2024 - Led development of AI-enhanced employment verification and asset tracking systems - Implemented Redis caching and database optimization reducing API response times by 60% - Designed secure authentication flows using OAuth 2.0 and SSO integration

Senior Software Developer | PCSInfinity Pvt. Ltd.

Aug 2014 – Aug 2021 - Developed enterprise ERP systems for asset management and supplier portals - Built RESTful API architectures serving web and mobile platforms - Led team of 5 developers on

complex multi-module implementations

Software Developer | Djava Technologies

Jul 2012 – Jun 2014 - Developed CRM and inventory management systems using .NET stack - Built WCF services for mobile app integration - Established 3-tier architecture patterns for scalable solutions

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EDUCATION & CERTIFICATIONS

🎓 **B.E. (Computer Science & Engineering)** — Institute of Electronic and Telecommunication Engineering

📜 **.NET Certification** — Oxford Software Institute

KEYWORDS FOR ATS OPTIMIZATION

AI Engineer, LLM Integration, Prompt Engineering, ChatGPT, OpenAI, Claude, Enterprise AI, .NET Core, Angular, React, Full Stack Developer, Enterprise Architecture, HRMS, Job Portal, ERP, Microservices, Azure, SQL Server, REST API, OAuth 2.0, SSO, Algorithmic Trading, Machine Learning, Automation, Digital Transformation

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References available upon request