

PROJECT PORTFOLIO – SONI SINGH

PROFILE SUMMARY

Results-driven Senior Full Stack Developer and AI Automation Specialist with 14+ years of experience designing, developing, and optimizing enterprise-grade web applications, AI-powered automation systems, healthcare platforms, workflow solutions, and digital transformation initiatives.

Expertise spans WordPress, PHP, React.js, Angular, TypeScript, Python (Django), Node.js, REST APIs, OCR technologies, AWS Textract, AI integrations, workflow automation, and enterprise application architecture. Successfully delivered 100+ websites, portals, healthcare reporting systems, automation platforms, OCR solutions, and business intelligence applications for global clients across Healthcare, Finance, Operations, Research, and E-Commerce domains.

Known for translating complex business requirements into scalable, secure, and high-performance solutions while leveraging AI and automation to improve operational efficiency and user experience.

KEY PROJECTS

1. AI-Powered Medical Document Intelligence Platform

Role: Solution Architect & Full Stack Developer

Tech Stack: WordPress, PHP, MySQL, JavaScript, AJAX, AWS Textract, Azure OpenAI, BastionGPT, PDF Processing

- Designed and developed an AI-powered healthcare document intelligence platform for neurological and patient evaluation workflows.
- Automated Evaluation Reports, Darren Summary Reports, Medical Summaries, and TMS treatment reports.
- Implemented OCR extraction from scanned, typed, and handwritten medical records using AWS Textract and PDF parsing tools.
- Built AI-powered medical summarization workflows for diagnosis, symptoms, treatment plans, and clinical narratives.
- Developed Spanish-to-English AI translation workflows for multilingual report generation.
- Created secure role-based access, report locking, workflow automation, and PDF report generation systems.

2. Hybrid OCR & Medical Document Processing Engine

Role: Lead Backend Developer

Tech Stack: PHP, AWS Textract, S3, SNS, Spatie PDFToText, Smalot PDF Parser, MySQL

- Developed an enterprise-grade OCR engine for medical records, MRI reports, MMSE forms, ImPACT reports, invoices, contracts, and scanned documents.
- Implemented asynchronous Textract processing pipelines with S3, SNS callbacks, caching, and duplicate prevention.
- Built page-level document classification and structured data extraction workflows.
- Processed both printed and handwritten documents with automated JSON output generation.
- Reduced manual data entry efforts and improved document processing accuracy.

3. AstraQuant AI Trading Copilot

Role: AI Product Architect

Tech Stack: React.js, TypeScript, Python, FastAPI, PostgreSQL, OpenAI, Agentic AI, WebSockets, AWS

- Designed an AI-powered trading intelligence platform for market analysis, options analytics, and trade insights.
- Built architecture for real-time market feeds, broker integrations, and scalable API-driven workflows.
- Developed AI-driven market prediction, risk assessment, and portfolio monitoring workflows.
- Designed multi-agent workflows for analytics, trade recommendations, and market sentiment analysis.
- Created dashboards for options data, market trends, and AI-generated trading insights.

4. GenAI-Powered Business Analyst Copilot

Role: Product Owner & Solution Architect

Tech Stack: React.js, FastAPI, OpenAI, PostgreSQL

- Designed a GenAI-powered assistant to automate BRD, FRD, user stories, process flows, and requirement documents.
- Built AI-assisted requirement gathering, project analysis, and stakeholder communication workflows.
- Automated executive status reports, project summaries, and presentation content generation.
- Designed JIRA workflow concepts for requirement tracking and project delivery support.
- Improved business analysis productivity through reusable AI-powered documentation frameworks.

5. Enterprise CMS & Operations Management Platform – African Port Hub

Role: Lead Full Stack Developer

Tech Stack: Angular, TypeScript, Node.js, Express.js, REST APIs, MySQL

- Developed an enterprise portal with 25+ business modules for content, operations, and workflow management.
- Built reusable Angular components and scalable frontend architecture.
- Developed RESTful backend services with role-based access control and secure API communication.
- Integrated payment gateways, publishing workflows, dashboards, and reporting modules.
- Improved operational visibility through structured modules and centralized data management.

6. Bobcat Operations & Service Management Platform

Role: Full Stack Developer

Tech Stack: WordPress, PHP, MySQL, REST APIs, JavaScript

- Developed a vehicle service and operations management platform for diagnostics, flat-rate services, and technician workflows.
- Created work-order assignment systems and department-wise workflow routing.
- Built operational dashboards for service tracking, technician activity, time tracking, and client billing.
- Implemented reporting modules to monitor service progress and operational efficiency.
- Improved business workflow visibility and reduced manual coordination efforts.

7. ReMe Sleep Healthcare Platform

Role: Full Stack WordPress Developer

Tech Stack: WordPress, Elementor, PHP, Zoho CRM, Google APIs

- Developed a healthcare-focused patient acquisition website with responsive UI/UX.
- Integrated Zoho CRM workflows for lead management and patient communication.
- Connected website forms with Google Sheets automation for data tracking.
- Implemented SEO, performance optimization, and responsive design improvements.
- Improved patient lead generation and digital inquiry management processes.

8. Last Mile NYC Logistics Platform

Role: WordPress & API Developer

Tech Stack: WordPress, PHP, JavaScript, REST APIs

- Built a logistics and delivery management portal with dynamic API-driven content rendering.
- Integrated external data APIs for real-time information display and operational workflows.
- Created scalable frontend architecture using WordPress and JavaScript.
- Optimized API performance, caching, and page loading speed.
- Improved platform usability and data accessibility for logistics operations.

9. WooCommerce Wallet & Payment Gateway System

Role: WordPress Plugin Developer

Tech Stack: WordPress, WooCommerce, PHP, MySQL

- Developed a custom WooCommerce wallet solution with recharge and payment workflows.
- Built a custom payment gateway for wallet-based order payments.
- Created admin wallet balance management features from user profiles.
- Implemented transaction history, audit logs, validation, and security checks.
- Improved payment flexibility within WooCommerce checkout workflows.

10. Special Events REST API Plugin

Role: WordPress Plugin Developer

Tech Stack: WordPress REST API, PHP, MySQL

- Developed a secure event management REST API plugin for WordPress.
- Implemented CRUD operations for creating, reading, updating, and deleting events.
- Added role-based access control for admin-only API actions.
- Applied input validation, sanitization, and secure response handling.
- Created API documentation and testing workflows for smooth implementation.

11. Advanced WordPress Search Engine Plugin

Role: WordPress Plugin Developer

Tech Stack: WordPress, PHP, MySQL

- Built an advanced WordPress search plugin to improve content discoverability.
- Enabled searching across post title, author, publish date, and custom meta fields.
- Developed optimized query structures for better search accuracy and performance.
- Implemented AND-based search logic for refined search results.
- Enhanced user experience through faster and more relevant search functionality.

12. Recon Transformation Automation Platform

Role: Automation Lead / Business Transformation Consultant

Tech Stack: VBA, Power BI, Excel Automation, SQL

- Delivered 67 automation solutions for reconciliation and exception management processes.
- Automated manual workflows to reduce operational risk and improve productivity.
- Built executive dashboards, KPI reports, and performance tracking models.
- Delivered measurable FTE efficiency and improved process controls.
- Supported business transformation through automation, reporting, and operational governance.

13. Enterprise PDF & Report Automation Engine

Role: Backend Developer

Tech Stack: PHP, PHPWord, PDF Processing, Word Templates, MySQL

- Developed a template-driven report automation engine for generating structured business and medical reports.
- Implemented dynamic content mapping, reusable templates, and automated document generation workflows.
- Supported multilingual report generation and PDF output processing.
- Built scalable APIs for report generation and document workflow automation.
- Reduced manual report preparation time through standardized automation logic.

14. WordPress AI Automation Framework

Role: AI Integration Engineer

Tech Stack: WordPress, PHP, OpenAI, Azure AI, REST APIs

- Integrated AI services into WordPress applications for content, form, and workflow automation.
- Developed AI-powered form processing, chatbot, and recommendation engine workflows.
- Built secure API communication layers for AI and third-party service integrations.
- Automated content generation and structured data extraction workflows.
- Enhanced WordPress applications with AI-driven business automation capabilities.

NOTE FOR HR

All projects listed above are built end-to-end by me, including architecture, development, integration, optimization, and deployment. These projects demonstrate my ability to handle real-world, large-scale, and high-complexity systems independently.