

JAVERIA NAVEED

GenAI Software Engineer | AI Automation Engineer



Kuala Lumpur, Malaysia



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PROFESSIONAL SUMMARY

GenAI Software Engineer with hands-on experience building AI-powered applications, Retrieval-Augmented Generation (RAG) systems, document intelligence platforms, voice AI workflows, browser automation solutions, and enterprise AI tools. Experienced in developing full-stack AI products using React, Next.js, TypeScript, Python, FastAPI, NestJS, Supabase, Firebase, PostgreSQL, and modern LLM technologies including Gemini and OpenAI models.

Combines enterprise leadership experience from Accenture with practical AI engineering expertise, delivering automation solutions, intelligent document workflows, conversational AI systems, and scalable AI-powered applications.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL

AI & GenAI: Retrieval-Augmented Generation (RAG), Agentic AI, Prompt Engineering, Vector Search, Semantic Retrieval, Conversational AI, Voice AI, Structured Outputs, AI Guardrails

Frameworks & Models: LangChain, LangGraph, OpenAI, Gemini, GPT-4o, Vapi

Frontend: React, Next.js, Tailwind CSS

Backend: Node.js, NestJS, FastAPI, Express.js

Databases: PostgreSQL, Supabase, Firebase Firestore, pgvector

Automation & Tools: Playwright, n8n, UiPath, Git, GitHub, Vercel

Cloud: AWS Fundamentals (EC2, S3, Lambda, API Gateway)

PROFESSIONAL EXPERIENCE

Freelance AI & Automation Engineer

2025 – Present

- Build full-stack GenAI applications, RAG systems, document intelligence platforms, and workflow automation solutions.
- Develop AI-powered products using React, Next.js, TypeScript, Python, FastAPI, NestJS, Supabase, Firebase, and PostgreSQL.
- Design document ingestion pipelines with chunking, embeddings, vector search, and grounded AI responses.
- Create browser automation and data extraction workflows using Playwright and Node.js.
- Integrate Gemini, OpenAI-compatible APIs, and voice AI platforms into enterprise workflows.
- Implement AI guardrails, structured outputs, and validation pipelines to improve response quality and reliability.

Key Projects

EPermit / PermitPilot – AI Permit Intelligence Platform

- Developed AI-powered permit intelligence workflows for multi-jurisdiction permit processing.
- Built Playwright-based automation solutions for extracting structured data from government permit portals.
- Implemented document ingestion pipelines with chunking, embeddings, and vector search using pgvector.
- Developed AI-powered permit comment analysis and response generation workflows.
- Contributed to autonomous permit filing workflows utilizing multi-agent orchestration concepts.

Tech: React, TypeScript, Supabase, PostgreSQL, Playwright, OpenAI, GPT-4o, pgvector

DocuMind – AI Knowledge Base & RAG Platform

- Built end-to-end RAG architecture with document ingestion, chunking, embeddings, and semantic retrieval.
- Implemented pgvector similarity search and vector indexing.
- Developed streaming AI chat experiences with conversation persistence.
- Created multi-provider AI architecture supporting OpenAI, Groq, Ollama, and Together AI.

- Implemented secure authentication using Supabase JWT verification and Row-Level Security.

Tech: Next.js, NestJS, TypeScript, Supabase, PostgreSQL, pgvector

PreMortem AI – Enterprise Risk Simulation Platform

- Developed enterprise AI simulation workflows for audit, compliance, vendor, and operational risk scenarios.
- Built structured AI output pipelines using Gemini and Pydantic validation.
- Implemented AI quality guardrails, output validation, and retry mechanisms.
- Generated failure maps, mitigation plans, evidence checklists, and executive reports.

Tech: React, TypeScript, FastAPI, Python, Gemini, Pydantic

AI Mock Interview Platform

- Built a voice-enabled AI interview platform integrating Vapi, Gemini, Firebase, and Next.js.
- Implemented real-time AI voice interview workflows and automated transcript processing.
- Developed structured candidate evaluation and feedback generation pipelines.
- Integrated speech-to-text and conversational AI capabilities.

Tech: Next.js, TypeScript, Firebase, Gemini, Vapi

Trust & Safety Senior Analyst – Quality Lead

Accenture Technology Solutions Sdn. Bhd., Kuala Lumpur

Feb 2023 – Apr 2025

- Led quality operations and performance improvement initiatives for large-scale content moderation programs.
 - Managed and coached a team of Quality Analysts.
 - Conducted stakeholder reviews, business performance discussions, and operational reporting.
 - Collaborated with cross-functional teams to improve compliance, quality, and operational efficiency.
 - Supported policy implementation, risk mitigation, and governance initiatives.
 - Identified automation opportunities and workflow improvements.
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Quality Analyst

IT Business Solutions Sdn. Bhd. (Assigned to Accenture)

Dec 2021 – Feb 2023

- Conducted quality audits and compliance reviews.
 - Analyzed trends and root causes to improve operational performance.
 - Supported process improvement initiatives and stakeholder reporting.
 - Ensured policy compliance and operational accuracy.
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Content Moderator Associate

IT Business Solutions Sdn. Bhd. (Assigned to Accenture)

Nov 2019 – Nov 2021

- Reviewed and moderated user-generated content against platform policies.
 - Escalated high-risk content and policy violations.
 - Maintained quality and accuracy standards within high-volume operations.
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EDUCATION

Doctor of Pharmacy (Pharm-D)

University of Karachi, Pakistan

CERTIFICATIONS

- Agentic AI Professional Level 2 Developer – PIAIC
 - Model Context Protocol (MCP) Level 2 Developer – PIAIC
 - Agentic AI Level 1 Developer – PIAIC
 - Modern AI Python Level 1 Developer – PIAIC
 - Prompt & Context Engineering Level 1 Developer – PIAIC
 - UiPath RPA Citizen Developer
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ADDITIONAL INFORMATION

- Based in Kuala Lumpur, Malaysia
 - Experience collaborating with global stakeholders and enterprise clients
 - Strong background in process optimization, governance, compliance, and quality systems
 - Open to GenAI Software Engineer, AI Engineer, AI Automation Engineer, and Applied AI opportunities
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