FULL-STACK AI ENGINEER

Candidate Reference Number: 202608091910

PROFILE

Full-Stack AI Developer with **8+ years of software engineering experience** building production AI applications, APIs, web interfaces, and data-backed platforms. Strong capability across **React, Next.js, TypeScript, Python, Node.js, PostgreSQL, OpenAI APIs, RAG, vector databases, MCP integrations, agentic workflows, secure APIs, cloud deployment, testing, and monitoring**.

CORE CAPABILITIES

AI / Agents: OpenAI API | structured outputs | MCP servers | AI tool integration | agent orchestration | grounded prompting | validation
Retrieval: RAG | Qdrant | Pinecone | Weaviate | Chroma | semantic search | embeddings | chunking | metadata filtering
Stack: Next.js | React | TypeScript | Python | Node.js | PostgreSQL | REST APIs
Cloud / Delivery: AWS | Azure | Google Cloud | Vercel | testing | deployment | monitoring | structured logging

SELECTED DELIVERY EVIDENCE

- Built **six customer-facing AI workflows** that moved from prototype validation into dependable daily business use.
- Developed MCP servers and integrations enabling **20+ structured agent actions** with explicit permissions and failure handling.
- Reduced a multi-step operational process from roughly **25 minutes to under 8 minutes** per case through controlled agent orchestration.
- Designed secure Python/Node APIs supporting more than **150,000 monthly requests**.
- Built Next.js/React AI-assisted workflows that reportedly reduced task-completion time by **32%**.
- Raised successful automated workflow completion from **84% to 95%** through LLM evaluation, testing, deployment, and monitoring.
- Reduced malformed model responses by **41%** using structured outputs, validation, and fallback handling.

ENGAGEMENT FIT

Strong fit for senior Full-Stack AI work spanning **RAG, agentic workflows, MCP/tool integration, secure APIs, frontend experiences, data systems, cloud deployment, evaluation, and production reliability**.

EXPERIENCE EVIDENCE

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2024-PRESENT | SENIOR SOFTWARE / AI ENGINEERING

- Built production AI applications combining React/TypeScript interfaces, Python services, OpenAI APIs, and PostgreSQL.
- Implemented MCP servers and agent-tool integrations with explicit permissions, inputs, validation, and failure handling.
- Developed RAG pipelines using semantic search, embeddings, chunking, grounded prompting, and vector databases.
- Created orchestrated AI workflows with model calls, tools, validations, and structured outputs.
- Established evaluation, regression testing, deployment, and monitoring practices for LLM applications.

2020-2024 | SOFTWARE ENGINEERING

- Architected PostgreSQL-backed services for profiles, workflow state, AI outputs, and audit history across **2.5M+ stored records**.
- Integrated OpenAI APIs with structured outputs, prompts, validation, and fallback handling.
- Deployed full-stack AI services across AWS and Vercel for frequent customer-facing releases.
- Prototyped React/Python/semantic-retrieval solutions that validated **three high-value use cases** before deeper investment.

2017-2020 | SOFTWARE ENGINEERING

- Implemented Pinecone and Qdrant vector search, reportedly reducing knowledge-lookup latency by **37%**.
- Connected AI applications to business platforms through REST APIs and MCP-compatible tools across seven recurring workflows.
- Improved agent reliability with timeout controls, retry boundaries, validation, logging, and monitored deployments, reportedly reducing failed multi-step executions by **29%**.
- Documented architecture, API contracts, retrieval flows, prompt behavior, deployment steps, and safeguards.

EDUCATION

Bachelor of Science - Computer Science