FULL-STACK AI ENGINEER

Candidate Reference Number: 202608111412

PROFILE

Senior Full-Stack AI Engineer with **10 years of experience** building web applications and distributed systems across healthcare and enterprise environments. Strong capability across **Node.js, Python, TypeScript, Next.js, React, Spring Boot, PostgreSQL, vector databases, OpenAI APIs, RAG pipelines, AI agents, cloud platforms, security, testing, and observability**. Has delivered caregiver-facing systems used by more than **10,000 users** and production AI/search workflows with measurable performance and reliability improvements.

CORE CAPABILITIES

AI / LLM: OpenAI APIs | embeddings | structured outputs | prompt engineering | AI agents | workflow orchestration
RAG / Retrieval: Pinecone | Qdrant | Weaviate | Chroma | semantic search | embedding pipelines | grounded retrieval
Application Stack: Next.js | React | TypeScript | Angular | Node.js | Python | Spring Boot | Go | REST | GraphQL | OpenAPI
Data: PostgreSQL | MySQL | MongoDB | Cassandra | Redis | schema migrations | advanced indexing
Cloud / Delivery: AWS | Azure | Google Cloud | Vercel | Docker | Kubernetes | GitHub Actions | Jenkins | CI/CD
Security / Reliability: OAuth2 | JWT | input validation | threat-aware design | contract/unit/integration/e2e testing | Datadog | structured logging

SELECTED DELIVERY EVIDENCE

- Helped evolve caregiver services toward microservices while preserving consumers through **YAML-defined OpenAPI contracts and contract testing**.
- Architected Spring Boot and Node.js services integrating OpenAI APIs and Pinecone/Qdrant embedding flows for semantic search and contextual-assistant use cases.
- Refactored latency-sensitive APIs and introduced Redis caching and event queues, contributing to a reported **40% API-latency reduction** for workflows serving **10,000+ users**.
- Orchestrated asynchronous AI-agent workflows with queue-based processing, long-running retrieval/generation flows, and reliable retry semantics.
- Designed API-first Node.js/Java services and decomposed a monolithic platform into independently deployable components to enable parallel product work.
- Rebuilt real-time notification and conversational flows using WebSockets, queues, and OpenAI-backed assistants.
- Instrumented distributed tracing, monitoring, and structured logging with Datadog to improve incident diagnosis and operational follow-through.

ENGAGEMENT FIT

Strong fit for senior Full-Stack AI engagements requiring a practitioner who can bridge **production application architecture, RAG and semantic retrieval, secure APIs, cloud-native delivery, observability, and customer-facing product work**. Particularly well aligned to regulated or healthcare-adjacent environments where reliability, interoperability, and disciplined engineering matter.

EXPERIENCE EVIDENCE

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2023-PRESENT | SENIOR FULL-STACK AI ENGINEERING

- Full-stack and AI engineering across Next.js, React, TypeScript, Angular, Node.js, Python, Spring Boot, PostgreSQL, vector databases, OpenAI APIs, cloud platforms, security, testing, and observability.
- Applies API-first design, semantic retrieval, agent orchestration, event-driven patterns, documentation, and product-focused iteration to production systems.
- Produces API contracts, runbooks, architecture diagrams, onboarding guides, and other operational documentation.

2020-2023 | SENIOR AI / FULL-STACK ENGINEERING

- Migrated caregiver-facing services toward microservices using OpenAPI contracts and contract testing while preserving production consumers.
- Built Spring Boot/Node.js backend services with OpenAI integrations, embedding flows, and semantic-search pilots.
- Improved responsiveness for high-throughput caregiver workflows with API refactoring, Redis caching, and event queues.
- Implemented OAuth2/JWT authentication, input validation, and threat-aware security patterns for patient-facing endpoints.
- Deployed containerized services to Kubernetes with GitHub Actions/Jenkins CI/CD and consistent health checks.
- Modernized legacy frontends incrementally with TypeScript and RxJS while protecting production stability.

2016-2020 | SENIOR FULL-STACK ENGINEERING

- Designed API-first Node.js/Java services and decomposed a monolithic platform into independently deployable services.
- Built real-time notification and conversational workflows with WebSockets, queues, and OpenAI-backed assistants.
- Integrated PostgreSQL, MySQL, and Cassandra data pipelines and supported semantic-retrieval layers.
- Established unit, integration, and contract-test suites with CI regression gates and automated deployment/rollback workflows.
- Migrated legacy jQuery frontends toward component-driven Angular architecture and comprehensive Jasmine test coverage.
- Validated HL7/FHIR-aligned integration points and caregiver scheduling flows using mock services and contract tests.
- Trained support and development teams on Kubernetes, CI workflows, observability, and post-incident practices.

EDUCATION

Bachelor of Science - Computer Science