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Summary

AI-integrated Full-Stack Engineer with 3+ years delivering production LLM applications. Specialised in building and scaling React + Node.js/Python SaaS products with **LangChain**, **RAG pipelines**, and **GPT-4/OpenAI** integrations. Delivered a **40% backend latency reduction** and **>85% accuracy** AI features in production. Seeking product engineering roles where reliable AI systems and backend scalability drive business outcomes.

Experience

Searchlook (Garangou Capital)

07/2026 – Present

Full Stack Engineer

Remote

- Sole engineer building and shipping the premium background check feature – a priority 2-coupon verification flow with **real-time countdown timers**, confirmation modals, and full **i18n/localisation** support across the React/Node.js product.
- Designed and implemented **async processing pipelines** using **BullMQ** for background check job orchestration, ensuring reliable queue management and graceful degradation under concurrent load.
- Owned end-to-end delivery from UI through backend integration, collaborating directly with stakeholders to rapidly iterate on product requirements in a fast-moving contractor environment.

hrGenie

08/2025 – 11/2025

Full Stack Developer (4-person engineering team, early-stage AI recruitment SaaS)

Gurugram, India

- Owned end-to-end delivery of a **dual-portal SaaS product** (React.js + **TypeScript** + Node.js) built on a **microservices** architecture – from system design decisions through production deployment – collaborating with product and design across Agile sprints.
- Diagnosed and resolved production **performance bottlenecks** in Node.js/Express services backed by **MongoDB** and **Redis**; **cut response latency by 40%** through query optimisation, connection pool tuning, and targeted indexing.
- Built and owned **CI/CD pipelines** (GitHub Actions + Azure DevOps) enabling zero-downtime releases with **observability dashboards** (logging, alerting, uptime SLOs) across dev, staging, and production environments.
- Integrated **OpenAI GPT-4** into a resume-scoring pipeline processing hundreds of documents weekly, achieving **>85% match accuracy**; implemented retry logic and rate-limit backoff ensuring graceful degradation under sustained load.
- Designed **RESTful APIs** and event-driven workflows (BullMQ); maintained **>80% test coverage** (Jest / React Testing Library) as a core part of the shipping process.

Software Engineer (Freelancing)

11/2023 – Present

Independent Projects & Client Work

Remote

- Continued independent AI product development and client consulting, focusing on LLM-powered tools and production RAG implementations.
- Delivered **10+ production applications** end-to-end – React.js, Next.js, Node.js/Express, Python/FastAPI & Django, PostgreSQL, MongoDB – owning architecture, **API design**, scalability, and post-launch stability.
- Built **RESTful and event-driven APIs** with **JWT auth**, **RBAC**, and **rate limiting**; designed and optimised **PostgreSQL** schemas and **MongoDB** aggregation pipelines, **reducing query latency 20%** under real production traffic.
- Containerised services with **Docker** and deployed to **AWS and Azure**; authored runbooks and **monitoring playbooks** to eliminate recurring environment failures across client deployments.
- Integrated and stress-tested **15+ third-party APIs** (payment gateways, cloud storage, analytics) with focus on edge cases, **distributed system** reliability, and graceful failure handling.

Mindtree

03/2022 – 05/2022

Software Development Intern

Kolkata, West Bengal

- Built 3 React.js applications with Redux state management and Node.js/Express backends; improved REST API response times by 15% through targeted middleware optimisation.

Projects

Financial RAG System | Python, LangChain, ChromaDB, OpenAI GPT-4, Streamlit, yfinance, NewsAPI, SEC EDGAR, Azure [GitHub](#)

- Multi-source financial intelligence platform ingesting **Yahoo Finance**, **NewsAPI**, and **SEC EDGAR** filings into a **ChromaDB** vector store; enables contextual Q&A over live market data via **LangChain + GPT-4** with real-time pipeline **observability** via Streamlit dashboard; deployed on **Azure**.

AI Autonomous Insurance Agent | Python, FastAPI, OpenAI, LangChain, Streamlit

[GitHub](#)

- End-to-end **FNOL processing pipeline** with ACORD form extraction, fraud detection heuristics, and automated claim triage – built on **LangChain agents** with a **FastAPI** backend and Streamlit adjuster review interface; designed for scalable, event-driven claim intake.

Web Content Search | *React.js, TypeScript, FastAPI, Python, Weaviate, Sentence Transformers, BERT, Docker* [GitHub](#)

- Full-stack SPA for intelligent website content discovery; ingests any URL, chunks content via **BERT tokenisation**, and indexes embeddings in **Weaviate** for **semantic search** with cosine similarity ranking and an in-memory fallback for robust query handling at scale.

Aether Scribe | *React 18, TypeScript, Node.js, Express.js, MongoDB, Socket.io, Material UI, JWT, Google Gemini AI* [GitHub](#)

- Real-time collaborative document editor with **Socket.io WebSockets**, conflict-free concurrent state sync, and enterprise-grade auth (**JWT blacklisting**, **bcrypt**, **CORS hardening**); reusable **TypeScript + Material UI** design system achieving **>90% component reuse**; full Jest test suite.

Expense Tracker | *React, TypeScript, Node.js, Express.js, PostgreSQL, Prisma ORM, Supabase, Render* [GitHub](#)

- Production-deployed full-stack finance app with **integer-cent storage** (eliminating floating-point errors), idempotent submissions via **UUID + DB UNIQUE constraints**, and **Prisma-managed** PostgreSQL on Supabase.

Education

Haldia Institute of Technology

B.Tech in Computer Science and Engineering

08/2023

Haldia, West Bengal

Technical Skills

AI & LLM: Anthropic API, Claude Code, OpenAI GPT-4, Google Gemini AI, LangChain, RAG systems, Multi-agent AI systems, Agentic workflows, Prompt Engineering, Fine-tuning, ChromaDB, Weaviate, Vector Databases, Embeddings, Semantic Search, Pandas, NumPy

Backend: Node.js, Express.js, Python, FastAPI, Django, RESTful API Design, WebSockets (Socket.io), Microservices, Event-driven architecture (BullMQ), JWT, OAuth 2.0, RBAC

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Material UI, Redux, React Testing Library

Databases & Infrastructure: PostgreSQL, MongoDB, MySQL, Redis, Docker, AWS, Azure, GitHub Actions, CI/CD, Observability, Linux

Testing & Quality: Jest, React Testing Library, unit & integration testing, Postman, API contract testing, system design