NEELESHWARI MEHRA

AI Engineer | Python Full Stack Developer | Agentic AI & Generative AI • RAG • LLM Systems (3yrs Exp)

Mobile App Developer → Full Stack Web Developer → AI Engineer | Agentic AI Engineer

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PROFESSIONAL SUMMARY

Full Stack Software Engineer, AI Engineer, **Oracle Certified Associate: Agentic AI Foundations – Oracle University**, with 9+ years of software engineering experience across web and mobile application development, full-stack engineering, **Generative AI, Agentic AI**, and blockchain-based applications. Experienced in developing scalable, end-to-end applications using **Python**, **FastAPI**, Django, React.js, Next.js, JavaScript, and TypeScript. Skilled in building LLM-powered applications, **RAG pipelines**, **multi-agent workflows, orchestration systems**, and tool-integrated AI agents using **LangChain**, **LangGraph**, and **MCP**. Proficient in **PostgreSQL**, **pgvector**, MongoDB, vector search, REST APIs, Docker, and AWS cloud services, including Lambda. Knowledgeable in **GraphRAG**, LLMOps, OpenSearch, and AI application deployment. Experienced in prompt engineering, context engineering, **AI guardrails**, hallucination mitigation, **AI evaluation**, testing, and secure software design, with additional expertise in Solidity, Ethereum, and Web3 development.

TECHNICAL SKILLS & CORE COMPETENCIES

Gen AI & Agentic Systems: Agentic AI Orchestration, LangGraph, LangChain, Model Context Protocol (MCP), Large Language Models (LLMs), RAG (Retrieval-Augmented Generation), Semantic Chunking, Vector Embeddings, Guardrails (PII Filtering & Hallucination Defense), Evaluation Frameworks (Ragas, TruLens, LLM-as-a-Judge), Prompt Engineering.

Python & Backend: Python (OOP, File Handling, Asyncio), FastAPI, Django, Django REST Framework (DRF), Flask, Celery, Pydantic, SQLAlchemy, RESTful APIs, WebSockets, JSON APIs, Middleware Architecture.

Frontend & Full Stack: React.js, Next.js, Redux Toolkit, TypeScript, JavaScript (ES6+), Tailwind CSS, Context API, HTML5, CSS3, Vite, Responsive Web Design.

Databases & Vector Search: MongoDB, Vector Databases, PostgreSQL (pgvector), SQL Query Optimization & Relational Schema Design, MySQL, Redis Caching.

Cloud, DevOps & Tools: AWS (EC2, S3, RDS, Lambda), Docker, GitHub Actions CI/CD, Git/GitHub, Postman, Linux/Unix, OpenAPI/Swagger, Azure.

Security & Protocols: JWT (JSON Web Tokens), OAuth 2.0, Role-Based Access Control (RBAC), OTP Verification, Enterprise API Security.

CERTIFICATIONS & PROFESSIONAL CREDENTIALS

Oracle Certified Associate: Agentic AI Foundations (1Z0-1157-26) | *Oracle University* (Oct 2026)

- Gained a deep foundation in GenAI architectures, transformer mechanics, prompt design patterns, and generative AI problem-solving.

The Complete Full Stack AI Engineering Bootcamp | *Udemy – Instructor: Aritra Basak* (Oct 2026)

- Mastered end-to-end full-stack AI development, LLM fine-tuning, retrieval-augmented generation (RAG), and productionizing AI models.

Introduction to Claude Cowork | *Claude Academy (Anthropic)* (Oct 2026)

- Trained in multi-agent collaboration, Claude-driven collaborative productivity, and human-in-the-loop autonomous workflows.

Claude with Amazon Bedrock | *Claude Academy (Anthropic)* (Oct 2026)

- Engineered high-performance generative applications using Claude models on Amazon Bedrock; implemented serverless inference and secure enterprise cloud integration.

AI Skills Passport | *EY & Microsoft* (Oct 2026)

- Validated foundational and enterprise-scale AI competencies, sustainability in AI, business strategy, and Microsoft AI solution ecosystems.

Python for AI | *Simplilearn* (Oct 2026)

- Python data structures, object-oriented programming for AI/ML, NumPy, Pandas, algorithmic problem solving, and API integration for AI pipelines.

PROFESSIONAL EXPERIENCE

Mobile App, AI & Web Developer | **Prasar Bharati (National Public Broadcaster of India) (New Delhi, India)** [*Dec 2022 – Jun 2026]*

- Architected and deployed 'ABS Support AI', an enterprise document-grounded RAG conversational support assistant leveraging the ABS user manual as a knowledge base; built automated document ingestion, semantic chunking, vector embeddings, and semantic retrieval to generate source-aware, hallucination-free responses via Python, FastAPI, and PostgreSQL.
- Designed modular AI backend architecture with Python and FastAPI, emphasizing scalable API integration, retrieval workflows, context management, and reliable response generation. Incorporated knowledge of AI guardrails, context engineering, harness engineering, and hallucination mitigation to improve response quality and reliability.
- Applied knowledge of multi-agent AI architectures, including orchestrators, subagents, tool calling, workflow coordination, state management, and the complete agent lifecycle. Familiar with RAG, GraphRAG, and LLMOps concepts for building, evaluating, monitoring, and optimizing LLM-powered applications.
- Explored cloud deployment architecture using AWS services, including AWS Lambda, Docker, PostgreSQL, Amazon Aurora, and Amazon OpenSearch, with knowledge of AWS AgentCore concepts for secure and scalable agentic AI applications.
- Engineered full-stack features and API integrations for the web-based Artist Booking System (ABS Platform) in HTML, CSS, JavaScript, PHP, and Laravel, optimizing backend booking workflows, data validation, and artist verification pipelines.
- Developed the PB Employee Directory cross-platform mobile application using React, TypeScript, Ionic, and Capacitor; implemented multi-station directory search, OTP login, JWT authentication, session handling, and resilient offline/no-internet data caching.
- Engineered scalable web architecture for the official national Akashvani portal (Akashvani.gov.in) with PHP and Laravel, supporting live audio streaming across 275+ radio stations and access to nationwide digital media archives.
- Developed the Shabd (Shared Audio Visuals for Broadcast and Dissemination) iOS app in Swift with Amazon S3 media pipelines, enabling secure, centralized public broadcast asset ingestion and dissemination.

Software Developer (iOS App & React Native Developer) | **Hiteshi Infotech Pvt. Ltd. (Indore, India)** *[Jul 2020 – May 2022]*

- Developed scalable web and mobile software solutions utilizing Swift, iOS, React Native, React.js, PHP, and modern microservice toolkits with strict cross-browser and cross-platform compatibility.
- Engineered modular RESTful APIs and optimized complex relational database queries in MySQL, reducing API response latency by 25% across high-concurrency business modules.
- Collaborated with cross-functional teams to integrate automated testing, strict input schema validation, and CI/CD pipelines to ensure zero-defect production releases.

Mobile App Developer | **NextDay Software Solution (Indore, India)** [*Nov 2018 – Apr 2020]*

- Engineered and maintained mission-critical applications across Android and iOS platforms, optimizing runtime memory allocation and execution performance.
- Implemented responsive layouts, robust local database caching, and reliable offline-first data synchronization layers for commercial applications.

Mobile App Developer | **Kavya Softech Pvt. Ltd. (Indore, India)** [*May 2016 – Aug 2018]*

- Managed full-lifecycle mobile app development: requirement analysis, algorithmic optimizations, QA testing, and production deployment to Apple App Store and Google Play Store.
- Ensured strict compliance with application security guidelines, secure data persistence, and Apple Human Interface Guidelines.

FEATURED AI & FULL STACK PROJECTS

- **ABS Support AI & ABS Platform** *| React, Python, FastAPI, RAG, LLM, Embeddings, PostgreSQL |* https://abs.prasarbharati.org/ | https://abs-support-ai-web.vercel.app/

  Architected document-grounded RAG support assistant indexing the ABS operational manuals; created FastAPI service endpoints and responsive React chat interface. Developed end-to-end booking workflows with robust server-side validation.
- **PB Employee Directory Web & Mobile App** *| React, TypeScript, Ionic, Capacitor, REST APIs, JWT |* https://pb-employee-directory-app.vercel.app/

  Built enterprise employee directory for Prasar Bharati staff with multi-criteria search, OTP login, JWT authentication, session management, and offline data caching across web, iOS, and Android.
- **Akashvani National Web Platform** *| PHP, Laravel, JavaScript, HTML5, CSS3 |* https://akashvani.gov.in/

  Engineered scalable web streaming architecture for India's national broadcaster (Akashvani.gov.in), serving 275+ live radio stations, podcasts, and cultural archives to millions of daily users.
- **Cheq - Beforepay** *| Swift, Financial APIs, User Verification |* https://apps.apple.com/au/app/beforepay-borrow-up-to-5000/id1478582360

  Built Australian 'Pay On Demand' mobile app delivering advances up to $5,000 with secure transaction processing, automated underwriting checks, and real-time ledger accounting.
- **Teilomarket & Ti Care** *| Swift, Stripe Escrow, WebRTC, Firebase, Twilio Video Calling & Chat*

  Engineered peer-to-peer asset-sharing app with Stripe escrow payment workflows and geospatial search; built telemedicine app featuring encrypted peer-to-peer WebRTC video consultations.

EDUCATION & OTHER CERTIFICATIONS

- **Bachelor of Engineering (B.E.) in Electronics and Telecommunication** — Indore, Madhya Pradesh, India (2012)
- **Professional Certificate in Blockchain Technology & Development** — IIT Kanpur & Simplilearn (2025)

PERSONAL DETAILS

Availability & Location:

- **Notice Period:** Immediate Joiner
- **Last Working Day:** 30th June 2026 (Relieved from last company)
- **Reason for Transition:** Full time Contract concluded with Prasar Bharati
- **Current Location:** Indore, Madhya Pradesh, India
- **Preferred Location:** Remote / Hybrid / Indore / Pune

Core Information & Experience:

- **Total Years of Experience as Software Developer:** 9.5 years
- **Relevant Experience (Python/AI/GenAI):** 3 years
- **Highest Qualification:** B.E.
- **Work Authorization:** Authorized to work in India | Open to Global Remote Opportunities
- **Languages Known:** English (Fluent), Hindi (Native)

Compensation & Offers:

- **Current/Last CTC:** INR 9.5 LPA
- **Expected CTC:** INR 15 LPA
- **Holding an offer:** None (Actively interviewing)

Personal Details:

- **Date of Birth:** March 5, 1988
- **Marital Status:** Single / Unmarried
- **Strengths:** Quick Learner, Optimistic, Adaptive
- **Hobbies:** Swimming, Cycling, Travelling

DECLARATION

I hereby declare that all the information furnished above is true, complete, and correct to the best of my knowledge and belief.

Place: Indore, India
Neeleshwari Mehra