

Amarjeet Kaur

Senior Full Stack AI Engineer/Tech Lead

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Websites, Portfolios, Profiles

- linkedin.com/in/amarjeet-kaur-1087

Skills

Angular

Senior Full Stack AI Engineer / Tech Lead with 14+ years of experience designing, developing, and delivering scalable, high-quality software solutions across diverse industries. Proven expertise in architecting agentic AI systems and LLM-orchestrated workflows (LangGraph, multimodal AI extraction pipelines) alongside strong full-stack, cloud-native, and DevOps fundamentals. AWS certified, with hands-on experience in cloud infrastructure, secure multi-tenant architecture, and agile delivery. Adept at leading cross-functional teams, making critical architectural trade-offs, and translating emerging AI capabilities into production-grade, reliable systems — consistently driving customer satisfaction and project success.

Work History

2025-09 - Current

Senior Full Stack Developer / Tech Lead

AGS Technology Consulting, Remote
Defined a phased, testable build roadmap (**local-first development → cloud infrastructure**) to de-risk delivery, ensuring core **AI logic** was validated before introducing distributed system complexity.

Built a **TypeScript/Node.js** backend (**Express, Prisma**) with a strict **schema-first data contract (Zod)** shared across ingestion, extraction, and validation layers.

Designed a 5-rule **financial validation engine** using **Decimal.js** to guarantee mathematical integrity of AI-extracted monetary **data — critical** for a domain where floating-point errors are unacceptable

Established a test strategy spanning unit tests (validation engine), state-machine behavior tests **(LangGraph retry/escalation paths**), and synthetic integration tests (locally generated MIME emails) — enabling cloud-independent CI

2024-11 - 2025-09

Health and Family

Career Break, Delhi, India

IONIC

React

Next.js

Vercel

JavaScript

Typescript

HTML5

CSS3

Node.js

AWS

AI Agents

Crew AI

LANGGraph

Languages

English

Advanced (C1)

Hindi

Advanced (C1)

German

Beginner (A1)

Punjabi

Advanced (C1)

Took time off to prioritise **health and family** while staying engaged with industry trends and technologies.

- Focused on up-skilling in **AI Agent building using crew AI, LangGraph, LangChain, Azure AI Foundry to automate businesses, Micro Frontend architectures, cloud solutions (AWS, Azure, GCP), and CI/CD best practices**.
- Develop an AI-driven service that interacts with multiple data sources and APIs like **OpenAI**, **Anthropic**, and **Ollama**.
- Integrated Semantic Kernel to orchestrate the search feature using **RAG and Pine Code.**
- Implemented a **multi-agent deep research workflow t**hat uses embeddings, vector stores **using LangGraph**, including a reviewer and correction for any topic, and an **AI Chatbot** for parenting.ai (6 weeks POC).
- Actively contributed to **open-source projects and personal development work**, refining technical expertise.
- Now eager to re-enter the workforce, bringing **renewed motivation, strong technical skills, and a problem-solving mindset**.

2023-01 - 2024-10

Senior Full Stack Developer/Tech Lead

Forwood Enterprises India Pvt Ltd, Hyderabad, IN

- Design and Developed Checklist Creation **(Open AI SDK)** using **RAG calls, AI-powered multi-language** support**, dashboard reports,** and custom libraries**, Angular, Node.js, AWS(lambda, EC2, S3, API Gateway, DynamoDB), and Micro Frontend architecture** to enhance product capabilities.
- Led frontend performance optimisation initiatives and created an Automated flow, reducing load time by **30%** through lazy loading, caching, and bundle optimisations.
- Integrated **CI/CD pipelines** using Jenkins and AWS, ensuring **automated deployments.**
- Development of **multi-language** support, advanced **dashboards**, and **reusable libraries** using **Angular, RxJs**, **SSR**, **AWS**, and **Micro Front-ends**—enabling **40%** faster feature

rollout and supporting **expansion into 5+ new international markets**.
- Designed and implemented a **complete reporting feature using E-Charts, Angular, and AWS services** such as **Lambda, OpenSearch, S3, and CloudFront**, ensuring real-time analytics and data visualisation.
- Worked closely with **UX designers and product teams**, ensuring user-centric design and intuitive interactions.
- Implemented **unit and integration tests using Jest, Jasmine, and Cypress**, improving application reliability and code coverage.
- Mentored and led a team of developers, promoting best practices in **Agile/Scrum methodologies, state management (NgRx), and performance optimisation**.

2012-07 - 2022-12

Mobile Application Developer

IBM India Pvt Ltd, Noida, Uttar Pradesh

- Developed **Mobile applications** using **Java**, **Angular, Ionic UI**, **React Native, Cordova** and **GitHub** for version control.
- Created mobile applications for clients, including the **Food Lion Mobile App and Hannaford Mobile App**, ensuring seamless cross-platform performance.
- Designed and developed **barcode scanning, chatbot functionality** (**Google Dialogue-Flow** API), and an **object detection tool** (**TensorFlow** API), and **Google Maps** Integration.
- Led the development of modules for **Lodha Smarter City** and **Surat Municipal Corporation** projects, ensuring optimal performance on both **web and mobile platforms**.
- Collaborated with **Agile teams**, optimising code quality and ensuring project deadlines were met efficiently.
- Conducted **unit and integration testing** using **Jasmine and Karma**, ensuring high application reliability and stability.
- Implemented best practices for frontend performance, reducing application latency and enhancing UX.

2011-01 - 2012-06

Software Developer

Sify Software Ltd, Delhi, IN

- Developed core modules for the Electronic Product Distribution System (EPDS) using Java and PostgreSQL
- Participated in all stages of the software development lifecycle, delivering updates and enhancements aligned with client goals

Education

2004-06 - 2008-04

Bachelor of Technology: Computer Science

Uttar Pradesh Technical University - Lucknow

Certifications

AWS CERTIFIED SOLUTION ARCHITECT-ASSOCIATE

Apr 2025

Interests

Aerobics/Fitness

Gardening

Explore the world