

Aashis Jha

Founder & CEO — Oracle Brain Pvt. Ltd.

Full Stack Engineer · AI/ML Engineer · Mobile Developer

"I build intelligence that stays where it belongs."

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2020 Year Founded | 31+ Projects Delivered | 30+ Happy Clients | 8 Certifications

Professional Summary

Results-driven Full Stack Engineer, AI/ML Specialist, and Mobile Developer with 5+ years of hands-on experience building scalable web applications, cross-platform mobile apps, and intelligent AI systems. Founder & CEO of Oracle Brain Pvt. Ltd. — a technology company serving 30+ global clients with 31+ delivered projects across IT solutions, AI & automation, digital marketing, and consulting services. Deep expertise in React, Next.js, Flutter, Node.js, Python, Go, and cloud-native architectures. Proven track record of shipping production-ready applications from concept to deployment. Holds 8 industry certifications from Google and IBM. Open to remote, international, startup, and high-impact engineering roles.

Professional Experience

Founder & CEO

Oracle Brain Pvt. Ltd.

2020 – Present

Janakpur, Nepal

- Founded and scaled a full-service technology company to 31+ delivered projects and 30+ satisfied global clients across IT, AI, digital marketing, and consulting verticals.
- Architected and shipped Nura RAG — a privacy-first, on-device Retrieval-Augmented Generation system using Ollama and LangChain with zero data exposure to external servers.
- Delivered 31+ production applications including custom web platforms, mobile apps, enterprise systems, REST APIs, ML models, and NLP pipelines for diverse client industries.
- Led digital transformation engagements: SEO strategy, social media automation, brand design, and performance advertising campaigns for SME clients.
- Designed scalable cloud architectures on AWS with Docker containerization, CI/CD pipelines, and NoSQL/SQL database management.
- Provided technology consulting, IT training, workflow automation, and digital strategy advisory to organizations across Nepal.

Stack: Go, Python, TypeScript, React, Next.js, Flutter, Swift, Node.js, Django, AWS, Docker, PostgreSQL, MongoDB, LangChain, Ollama, PyTorch

Full Stack Engineer

Life Tech Pvt. Ltd.

Feb 2025 – Jul 2025

Kathmandu, Nepal (On-site)

- Engineered production-ready frontend features using React and Next.js within an Agile team environment, contributing to bi-weekly sprint releases.
- Designed and implemented secure RESTful APIs with JWT authentication, input validation, and role-based access control for multi-tenant web applications.
- Optimized SQL and NoSQL database query performance and schema design, improving data retrieval efficiency across core application modules.
- Deployed and managed containerized services using Docker, maintaining CI/CD pipeline integrity across staging and production environments.
- Participated in code reviews, enforcing clean architecture principles and reducing technical debt across shared codebases.

Stack: React, Next.js, Node.js, Express.js, PostgreSQL, MongoDB, Docker, Git

Featured Projects

Hospital Patient Management System

Healthcare Technology

Cross-Platform Mobile App

Tech Stack: Flutter, Dart, Firebase Auth, Firestore, Firebase Cloud Messaging, Provider

- Architected and deployed a full-featured cross-platform healthcare management application serving doctors, clinical staff, and patients on both iOS and Android from a single codebase.

- Implemented multi-role Firebase Authentication with secure session handling, differentiating access levels for physicians, administrative staff, and patients.
- Engineered real-time patient record management using Firebase Firestore — enabling instant synchronization of medical histories, prescriptions, and diagnostic data across all connected devices.
- Built end-to-end appointment scheduling system with real-time calendar tracking, conflict detection, and automated reminder push notifications via Firebase Cloud Messaging.
- Designed a responsive, accessibility-first mobile UI with smooth cross-platform animations and an intuitive patient-facing interface requiring zero technical training.
- Implemented cloud-based data persistence ensuring HIPAA-aligned data separation between patient profiles, medical records, and staff administrative data.

KrishiVeda — Smart Nepali Farming Platform
AI-Powered AgriTech Web App

React + Node.js + PostgreSQL

Tech Stack: React 18, TypeScript, Tailwind CSS, Express.js, PostgreSQL, Drizzle ORM, JWT, TanStack Query, GSAP, OpenWeather API

- Designed and delivered a full-stack AI-powered agricultural platform tailored for Nepali farmers across Terai, Hill, and Himalayan regions — addressing language, climate, and crop-specific challenges.
- Integrated an AI Farming Assistant with ML-backed crop recommendation engine and plant disease detection, helping farmers make data-driven decisions in real time.
- Built an interactive suite of smart calculators (fertilizer dosing, yield estimation, profit forecasting, irrigation scheduling, livestock weight tracking) using domain-specific agricultural algorithms.
- Engineered a dynamic community forum with threaded Q&A, peer-to-peer knowledge sharing, and expert answer voting — driving ongoing farmer engagement and knowledge retention.
- Integrated live weather data via OpenWeather API with seasonal crop suggestion engine and Nepal-specific regional planting calendars, enabling contextually accurate farming guidance.
- Developed a full marketplace and agricultural news feed, connecting farmers to suppliers and keeping them informed of market prices and agri-policy updates.
- Delivered a mobile-first, GSAP-animated UI with full TypeScript type safety, optimistic UI updates via TanStack Query, and JWT-secured multi-session authentication.

Personal Portfolio — aashisjha.com.np
Interactive 3D Portfolio Website

Tech Stack: Next.js, Three.js, TypeScript, React, Tailwind CSS

- Engineered an immersive personal portfolio using Three.js WebGL for interactive 3D scene rendering with real-time user-controlled animations.
- Built with Next.js App Router for server-side rendering, optimal Core Web Vitals scores, and SEO-optimized metadata across all pages.
- Showcases full-stack architecture, design system implementation, and production deployment on modern cloud infrastructure.

Technical Skills

Languages	Python, TypeScript, JavaScript, Go, Dart, Swift, SQL, Bash
Frontend	React 18, Next.js, Three.js, Tailwind CSS, Redux, TanStack Query, GSAP, HTML5, CSS3
Backend	Node.js, Express.js, Django, FastAPI, Flask, REST APIs, GraphQL, Drizzle ORM
Mobile	Flutter, Dart, Swift (iOS), React Native, Firebase, Cross-platform development
AI / ML	PyTorch, RAG, LangChain, LlamaIndex, Ollama, Hugging Face, Scikit-learn, Pandas, NumPy, NLP, Computer Vision
Databases	PostgreSQL, MongoDB, Firebase Firestore, Redis, MySQL, Snowflake, DynamoDB
Cloud & DevOps	AWS, Docker, Kubernetes, CI/CD, GitHub Actions, Terraform, Nginx, Linux/Bash
Security	Firebase Auth, JWT, OAuth2, Ethical Hacking, Network Security, SIEM, Vulnerability Analysis
Design & UX	Figma, UX Research, Wireframing, Prototyping, User Testing, Responsive Design

Licenses & Certifications

- **IBM Full Stack Software Developer** — IBM / Coursera *Apr 2025*
- **IBM iOS & Android Mobile App Developer** — IBM / Coursera *May 2025*
- **IBM Data Science Professional Certificate** — IBM / Coursera *May 2025*
- **IBM Applied Software Engineering Fundamentals** — IBM / Coursera *Apr 2025*
- **Google UX Design Professional Certificate** — Google / Coursera *Feb 2026*
- **Google IT Automation with Python** — Google / Coursera *Jan 2026*
- **Google Cybersecurity Professional Certificate** — Google / Coursera *Apr 2025*
- **Certified Ethical Hacker (CEH) v.12** — Packt / Coursera *Jan 2026*
- **MERN Stack Full Stack React, Redux & Node.js** — Packt / Coursera *May 2025*

Education

Bachelor of Computer Engineering
+2 Science — Biology & Mathematics
Secondary Education Examination

Pokhara University, Nepal
Dhanusha Science College · NEB, Janakpur Dham
Shree Mahendra Rastriya H.S. School, Nepal

Hobbies & Interests

🌐 **Traveling** (Exploring cultures) · 📖 **Reading** (Tech & philosophy) · 🎮 **Video Games** (Strategy & open world)
· 🎧 **Music** (Listening & discovery) · 🔍 **Researching** (AI, tech & new ideas)

Engineering Philosophy

- 01 — Complexity:** *"Complexity is anything that makes software hard to understand."* — A Philosophy of Software Design
- 02 — Craft:** *"Don't live with broken windows."* — The Pragmatic Programmer
- 03 — Leverage:** *"Seniority is measured in leverage, not output."* — Staff Engineer