

Basab Jha

basabjha.dev@gmail.com | +977 9821 541 655 | basabjha.com.np | linkedin.com/in/basabjha
github.com/comethrusws

Summary

Software Engineer and Machine Learning Engineer with experience in building scalable applications, AI systems, and research-driven products. Skilled in full-stack development, deep learning, NLP, and computer vision. Strong track record of contributing to startups and R&D teams, publishing peer-reviewed AI research, and delivering production-ready ML pipelines.

Education

Tribhuwan University, BS in Computer Science Sept 2022 – November 2026

- **Coursework:** Artificial Intelligence, Neural Networks, System Design, Software Engineering, Computer Architecture, Comparison of Learning Algorithms, Computational Theory, Advanced Calculus

Experience

Software Engineer, Equalbyte – Remote Oct 2025 - Present

- Architecting and delivering end-to-end MVP solutions for clients across diverse industries, from ideation through deployment.
- Building scalable full-stack applications with modern frameworks and cloud infrastructure to meet rapid product delivery timelines.
- Engineering robust software systems with focus on maintainable code architecture, performance optimization, and production reliability.

Software Engineer, xAGI – Remote Feb 2025 - Oct 2025

- Built predictive analytics pipelines, intelligent chatbots, and computer vision applications.
- Integrated AI solutions into enterprise systems, ensuring deployment scalability.
- Collaborated with cross-functional teams to ship production-ready AI features.

Junior Software Engineer, Likeo (Acquired) – Remote Mar 2025 – Jun 2025

- Developed AI-powered shopping and virtual try-on platform.
- Designed and implemented virtual trial room feature with real-time image processing.
- Managed system architecture and backend integration.

Cofounder & CTO, Apparatus.ai(Acquired) – Kathmandu, NP Feb 2024 – Apr 2025

- Developed ML models for business forecasting, anomaly detection, and compliance automation.
- Built scalable APIs and infrastructure for SME-focused SaaS platform.
- Led engineering team through product life-cycle up to acquisition.

Additional Experience

Research/ML Associate, Krutrim Jun 2024 – Aug 2024

- Worked on large-scale ML pipelines, feature extraction, and model training.
- Collaborated with senior researchers, delivering insights on enterprise datasets.

Fellow, Fellowship.ai – Remote Jan 2025 – Mar 2025

- Built an autonomous web agent leveraging LoRA scripting and LLM-based decision systems.
- Published research on LLM-based engineering agents.

Projects & Research

SAGEA: Open-domain large models for efficient CPU inference. Published work on inverse reasoning and ODLM trade-offs.

sagea.space

Publications: Thinking about Thinking (Inverse Reasoning in LLMs), Fragile Mastery (ODLM trade-offs), The Rosetta Paradox (LLM performance inversions)

Skills

Programming: Python, Rust, C/C++ , Julia, C#, TypeScript, JavaScript, Go

Frameworks: PyTorch, TensorFlow, MLX, FastAPI, Django, React, Next.js, Node.js

Databases: PostgreSQL, GraphQL, Pinecone, CassandraDB, MongoDB, MySQL, Supabase, Prisma, Firebase

Tools: Docker, Git, Linux, AWS, Nixpacks, LanceDB

Focus Area: NLP, computer vision, LLM optimization, predictive analytics, MLOps

Honors & Awards

- **Winner, DAV Codefest, 2025:** Developed *PricingOS*, an AI-powered pricing engine and business copilot for tech founders.
- **Winner, Deerhack, 2025:** Developed *Reasonet*, an AI-powered brain layer for startup founders and VCs.
- **Fintech Track Winner, MBMC IdeaX, 2024:** Developed *Finlytic*, a compliance and tax categorization platform.