

Puneet Saini

Senior Software Engineer · Gurugram, India

10+ years of **Full-Stack** engineering, architecting **Multi-Agent AI Systems** for clean energy.

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EDUCATION

Degree	Institute	Year
B.Tech, Electrical Engineering	Indian Institute of Technology Mandi	2009 – 2013

WORK EXPERIENCE

- **HST Powers** Apr 2020 – Present
Senior Software Engineer (consulting, US renewable-energy startup) Remote
 - Architected a **multi-agent AI system (LangGraph, AWS Bedrock)** for datacenter land diligence.
 - Built the **RAG** ingestion pipeline (**LangChain, pgvector**) that feeds the agents' knowledge retrieval.
 - Built **Cue**, a marketplace matching developers with landowners and datacenters with clean energy.
 - Architected **View 2.0**, an ESRI-based solar platform; **MEAN to MERN** migration, **40% faster** delivery.
 - Built **AWS Lambda GIS** services for wetland, flood-zone, and weather checks, cutting manual work **60%**.
 - Built a **FastAPI** market-data service turning electricity futures into forward curves and PPA models.
 - **Tech Stack:** TypeScript, Node.js, React, GraphQL, Python, FastAPI, LangGraph, Postgres, AWS
- **Kontext** Mar 2018 – Apr 2020
Tech Lead Gurugram, India
 - Shipped four products, including a **push notification** platform for iOS and Android with a campaign dashboard, **10,000+** engagements.
 - Built **Observer**, real-time in-store analytics (**WiFi tracking, Elasticsearch**), and **BLE beacon** displays.
 - **Tech Stack:** Node.js, JavaScript, Elasticsearch, Firebase, MongoDB
- **Entronic** Jun 2013 – Oct 2014
Full Stack Engineer Chandigarh, India
 - Built an **Electronic Health Record** system; rebuilt a CMS on **Erlang/ChicagoBoss**, **25%** faster.
- **GearedOx** 2012 – 2013
Co-Founder Mandi, India
 - Founded a **CAD** designer network and ran student workshops on modern CAD tools.
- **Defence Research and Development Organisation (DRDO)** Dec 2011 – Feb 2012
Research Intern, Snow and Avalanche Study Establishment (SASE) Chandigarh, India
 - Researched **wind-turbine** operation at high altitude and implemented efficiency improvements.

TECHNICAL PROJECTS

- **NewsDoggo** Live
Autonomous AI newsroom
 - Daily **agent pipeline** collects, scores, writes, edits, and publishes news with audio and images.
 - **Tech Stack:** FastAPI, PostgreSQL/pgvector, Anthropic API, Next.js, Cloud Run
- **Pi Speakers** GitHub
Raspberry Pi wireless speaker
 - **AirPlay 2, Spotify Connect**, and **Bluetooth** for old speakers, plus a web panel and LCD dashboard.
 - **Tech Stack:** Python, Raspberry Pi
- **Stroke Practise** Live
Kanji stroke-order practice for iOS and web
 - Grades each stroke as it is drawn against stroke-order data.
 - **Tech Stack:** Swift, TypeScript

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Python, SQL, Erlang, Swift
- **AI & LLM:** LangChain, LangGraph, multi-agent systems, RAG, pgvector, AWS Bedrock, Anthropic API
- **Web:** React, Next.js, GraphQL (Apollo), Node.js, Express, FastAPI, REST, microservices
- **Data & Cloud:** PostgreSQL, MongoDB, Elasticsearch, AWS (Lambda, S3), Cloud Run, Docker, CI/CD
- **Spoken:** English (professional working proficiency), Japanese (JLPT N5)