

curriculum vitae of
Pankaj Garkoti

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EDUCATION

2019 – 2022

B.Sc. Physics (H.)

DELHI UNIVERSITY, NEW DELHI

2017 – 2019

Senior Secondary

HEERA PUBLIC SCHOOL, NEW DELHI

TECHNICAL SKILLS

- **Backend** Python, Go, TypeScript, FastAPI, Gin, Express, Django, async services, long running tasks
- **Frontend** Vue.js, React, Next.js, Tailwind, Vanilla JS + HTML + CSS, Chrome extensions
- **AI** LLM pipelines, fine tuning, retrieval, agents, OCR, memory, real-time voice
- **Cloud** AWS, GCP, Terraform, Docker, CI/CD
- **Integrations** Google Workspace, Slack, Jira, Notion, Asana, WhatsApp, anything that can be integrated to anything else TBH
- **Technical Leadership** system design & architecture, product research, UX, hiring and mentoring, managing engineering teams, being a CTO

EXPERIENCE

Oct. 2025 – Jan 2026

Jouster Limited, British Virgin Islands

SENIOR SOFTWARE ENGINEER, DEEPLAW

Jouster was an experimental AI-native company with three parallel product teams: ModelVault (LLM infra), DeepLaw (contract analysis), and GeneEase (biotech).

I joined as the first engineer at DeepLaw and built the product end-to-end from scratch.

- Set up the engineering foundation from scratch: fully automated, auto-scaling infra with Terraform + CDN on GCP.
- Architected and implemented DeepLaw's entire contract analysis pipeline and interface:
 1. Robust OCR with IBM DocLink and two fallback methods to guarantee extraction.
 2. Parallelized extraction agents to pull metadata, risk factors, and obligations from chunked documents.
 3. A party-resolution engine that identified entities, attributes, and synonyms across documents.
 4. Automatic scheduling of obligations and renewals into Google Calendar as reminders and working blocks.
 5. User friendly dashboard + CRUD for uploads, runs, and extracted insights. Sign-in with Google as the auth method.
 6. End-to-end runtime under 50 seconds for documents up to 100 pages.
- Evaluated and interviewed engineering hires as the first technical member of the team.

Jouster shut down before DeepLaw MVP launched due to investor withdrawal and leadership loss. Despite the short duration, it was a high-ownership role where I built an AI product from scratch in a very short amount of time.

Apr. 2023 – May 2025

Mavex AI, Gurugram

CO-FOUNDER, CTO

Mavex AI is an AI based productivity tool for knowledge workers. It came out of our previous venture called Hear Us. During my time at Mavex AI, I did the following:

- Managed a team of engineers, interns and designers, driving innovation and product delivery.
- Led the technical vision and development of Mavex AI's platform through multiple product iterations such as:
 1. A drag and drop task list to calendar blocking system. This was accompanied by a WhatsApp based AI bot for quick actions.
 2. A hub for multiple AI Agents fine tuned for different tasks. Including dynamically rendered UIs in the agent response for taking complex user inputs.
 3. An AI powered markdown prose editor for the content creation agent in the above system.
 4. A Chrome Extension offering quick access to the agents from anywhere.
 5. An AI bot which can be CC'd into email threads to facilitate scheduling. This is accompanied by a dashboard which displays summaries and the current status of each email thread the assistant is looped into.
- Architected and implemented the entire back-end along with integrations to Jira, Asana, Notion, Google Calendar and Gmail. Oversaw creation of friendly User Interfaces.
- Oversaw LLM fine tuning, prompt tuning and created internal RLHF pipelines for AI powered use cases in every iteration of the product.

Jan. 2022 – Mar. 2023

Hear Us, New Delhi

CO-FOUNDER, CTO

Hear Us started as a B2C mental health platform which over a series of pivots became an AI productivity tool. Around Mar. 2023, we changed names to Mavex AI after raising an angel round. During this period I designed and implemented the following systems:

- A flutter android app to connect users with trained listeners and psychologists.
- An anonymous employee feedback and mood tracking bot for slack called Joy - accompanied by a monitoring dashboard for admins.
- A productivity focused bot on WhatsApp, capable of reaching out to people on the user's behalf for collecting information and scheduling meetings.
- A Google Meet transcription system which sent summaries and actionable tasks to the participants on WhatsApp Email. This was a component of the above.

Oct. 2021 – Apr. 2022

BCAS, Delhi University

RESEARCH APPRENTICE

- Undertook the calculation of electron-molecule collision cross-sections for various elemental gases under the guidance of Dr. Anand Bharadvaja.
- Presented the results in a research paper published in MDPI Journal - Atoms.

PROJECTS

- **daily-notes.nvim**
daily-notes.nvim is a lightweight Neovim plugin that replicates Obsidian's markdown template based daily note functionality inside Neovim. The plugin by default carries over the contents of previous day's note, headers that should not be copied can be specified separately. The plugin is highly configurable and allows custom datetime formats and paths etc.
- **ChainFactory**
ChainFactory is a framework on top of LangChain / LlamaIndex that aims to shift the standard way of defining LLM Chains to configuration instead of code. It makes use of YAML like syntax to define chains and guarantees structured output. Additionally it also has an auto-prompting mode which creates the full prompt template from a list of inputs and a single line purpose field. Chainlinks can import each other to tackle more and more complex tasks. The next step for ChainFactory is RAG by just specifying the sources and tool use to fill in information at run time.

- PlanWeaver

PlanWeaver is a step by step goal achieving driver for LLM Agents. Given an initial problem statement, it recursively breaks it into sub-problems until the exit condition is met (i.e. the current problem node is atomic and cannot be broken down anymore). You can use any type of executor that can take in natural language instructions as the execution component of PlanWeaver.

- AgentZero

AgentZero is a very simple LLM Agent which was created to be used as an executor with PlanWeaver.

PUBLICATIONS

- Garkoti, P.; Luthra, M.; Goswami, K.; Bharadvaja, A.; Baluja, K.L. The Binary-Encounter-Bethe Model for Computation of Singly Differential Cross Sections Due to Electron-Impact Ionization. *Atoms* 2022, 10, 60. *atoms*

REFERENCES

- Saurabh Pandey (CEO, Mavex AI) (saurabh@mavex.ai)
- Dr. Anand Bharadvaja (Professor, University of Delhi) (anand.bharadvaja@bcas.du.ac.in)