curriculum vitæ of

Pankaj Garkoti

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EDUCATION

2019 – 2022	B.Sc. Physics (H.)	DELHI UNIVERSITY, 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 an early stage CTO

CAREER SNAPSHOT

- **Senior Software Engineer** — Jouster (DeepLaw), 2025 - 2026

- **Co-founder & CTO** — Mavex AI, 2023 - 2025

- **Co-founder & CTO** — Hear Us, 2022 - 2023

EXPERIENCE & BUILD LOG

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 dashboard. Highlights:

  1. Robust OCR with fallback + parallelized extraction agents to pull risk factors and obligations for each party.

  2. A party-resolution engine that identified entities, attributes, and synonyms across documents to parse legal language more naturally.

  3. Auto-scheduling of obligations and renewals to Google Calendar.

  4. User-friendly dashboard with batch uploads and Google OAuth sign-in.

  5. Brought end-to-end runtime under 50 seconds for documents up to 100 pages using variable chunking and threshold-based merges.

- Evaluated and interviewed many potential engineering hires as the first technical member on the team. A good chunk of these people had a decade or more of experience.

Jouster shut down about 3 months in when its sole private investor pulled support from all teams; the DeepLaw MVP never launched. Despite the unexpected rug-pull, this was an enjoyable high-ownership role for me where I built an MVP with the proper foundation in a very short amount of time.

Apr. 2023 – May 2025   Mavex AI, Gurugram   Co-founder, CTO

Mavex AI was 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. Highlights:
    1. An intelligent to-do list to calendar blocking system — similar to Reclaim (reclaim.ai). This was our first non-chat application of AI for productivity.
    2. A Chrome Extension offering quick access to Mavex from anywhere on the browser using Cmd+M. I implemented integrations with Notion, Asana, Jira and Zoom. The extension featured fast semantic search over data from all of these sources.
    3. We then re-imagined Mavex as a hub for multiple AI Agents specializing in different tasks. For this, I designed and implemented what was possibly one of the first delegation-based agent architectures in the world.
    4. I implemented dynamically rendered UIs and a flexible plug-and-play system that made adding new agents to the system very easy. I also developed an AI-powered markdown prose editor for our content creation agent (along with the agent itself).
    5. Mavex AI went all-in on scheduling so I designed and implemented Mavy — an AI bot which could be CC'd into email threads to handle anything scheduling-related. Mavy has a custom decision tree architecture with only some paths leading to true agentic handlers. Scheduling is a well-constrained problem so for maximum accuracy and reliability, well-modeled flows beat unconstrained agentic behaviour.
- Spanned product + engineering responsibilities including UX direction, customer conversations, and roadmap decisions.

We raised $100k+ across two rounds; built a great team and shipped multiple products to customers worldwide. I have experienced firsthand all the stages in an early-stage company's life-cycle.

Jan. 2022 – Mar. 2023   HearUs, New Delhi   Co-founder, CTO

HearUs started as a B2C mental health platform which over a series of pivots became an AI productivity tool. In March 2023, we re-incorporated to Mavex AI after raising an angel round. Highlights:

- Android app made in flutter to connect users with trained listeners anonymously. We also tied up with mental health professionals to offer their services.
- I then created an employee feedback and mood tracking system for Slack called Joy — along with an admin dashboard. Joy was our first B2B mental health attempt and also our first attempt at building a B2B SaaS.
- Eventually, we pivoted out from mental health space into productivity. I designed and implemented a WhatsApp bot powered by GPT-3, it was capable of reaching out to people on our user's behalf for scheduling meetings, negotiating times or querying for information. This was my first encounter with building LLM powered applications.
- We then gave Joy the ability to join meetings! I created a system that could join Google Meet links, record, transcribe and then send summaries and actionable tasks to all participants over WhatsApp & Email.

Each pivot carried forward prior technical and operational learnings, eventually becoming the foundation for Mavex AI.

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 & Contributions

- 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.

- Vance (contribution)

  Vance is a tool that helps make useful introductions between founders, investors and operators. I built the initial prototype and foundation for the product, including a WhatsApp based agent, the core match-making algorithm and the voice agent.

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 Bhardvaja (Professor, University of Delhi) (anand.bharadvaja@bcas.du.ac.in)