

# Abhilash Anuku

Full-Stack Developer & Applied-AI Engineer

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## PROFILE

M.Sc. Applied Computer Science at SRH University Stuttgart (Oct 2025 — Sep 2027). Two years of production code at Datalense Services in India before Germany — Laravel and PHP CRMs for paying clients. Currently building Mörbius (six-agent clinical-reasoning cascade, 588/588 tests green at last run) and LISA (self-hosted MCP-native personal AI, four FastMCP servers, five-provider chain). Open to Werkstudent and junior applied-AI roles in Germany, available immediately.

## SKILLS

LANGUAGES	Python · TypeScript · JavaScript · Rust · PHP · SQL
AI / ML	Multi-agent systems · MCP · FastMCP · RAG · Knowledge graphs · LLM provider chains · PyTorch · Hugging Face · Ollama
BACKEND	FastAPI · Flask · Hono · Bun · Laravel · SQLAlchemy · Drizzle ORM · PostgreSQL · MySQL · SQLite · ChromaDB · Qdrant
FRONTEND	Next.js · React · Tailwind CSS · Three.js / R3F · Framer Motion
OPS	Docker · Caddy · GitHub Actions · Vercel · Hostinger · Linux · Git
TOOLS	VS Code · Cursor · Claude · Better Auth · Canva

## PROJECTS

### LISA — self-hosted personal AI

2025 – present

Self-hosted personal AI with persistent memory, voice, and an MCP-native tool layer.

Python · FastMCP · SQLAlchemy · Next.js · Tauri · ChromaDB

- Four FastMCP capability servers on isolated ports — chat (7878), RAG (7879), voice (7880), features (7881).
- Five-provider failover chain: Groq → NVIDIA NIM → Cerebras → Google AI Studio → Ollama (local fallback).
- Shared SQLite + ChromaDB store; single-host Docker deploy behind Caddy auto-TLS; Next.js 15 admin panel + Tauri desktop overlay.

### Mörbius — clinical-reasoning cascade

2025 – present

Self-led research project — six-agent clinical-reasoning cascade over a PubMed case-report library. Repo private; demo available on request.

Bun · TypeScript · React 19 · Hono · Drizzle · Postgres

- Six-agent cascade over 532 PubMed case reports — each agent owns one reasoning step; 588/588 tests gate every merge.
- Knowledge graph as the context layer between retrieval and the reasoning loop.
- Multi-provider runtime: NVIDIA NIM, Anthropic, HuggingFace, Ollama — local fallback if cloud providers fail.

### Dr.ABC — medical-reasoning agent cascade

2026 (GenAI coursework)

Medical-reasoning agent cascade with online residual correction.

Python · FastAPI · Drizzle · Qdrant · Postgres

- Internal eval set (single run, public eval pending): 74.5% on MedQA, 74% on MedMCQA — first benchmark pass; coursework artifact, not a published result.
- Cascade of specialist agents — retrieval, ranking, reasoning, verification, citation, synthesis — each owns a narrow lane.
- Postgres-backed error journal via Drizzle — every wrong answer is logged with the trace that produced it.
- Qdrant for vector retrieval; gradient-boosting correction loop runs over the journal to update reranker scoring.

## EXPERIENCE

### M.Sc. student · independent builder

Oct 2025 – present

SRH University Stuttgart Stuttgart, DE

- Self-led research + applied-AI builds in parallel to coursework — see Projects: Mörbius, LISA, Dr.ABC.
- Designed the public portfolio at [abhilashanuku.com](http://abhilashanuku.com) — Next.js 16, React 19, Tailwind v4, R3F workshop scene, section-locked camera.

### Full-Stack Developer

May 2023 – Jul 2025

Datalense Services Kuppam, IN

- Shipped CRM and operations apps in Laravel, PHP, MySQL, Bootstrap 5 for paying clients — owned end-to-end delivery across real release cycles (schema, API, admin UI, deployment).
- Maintained production codebases through feature work, hotfixes, and client-facing release notes; team-based code review, branch hygiene, shared on-call.
- Also delivered freelance builds for local civic and NGO clients (same owner network) — NGO sites, lightweight CRMs, automation tooling.

## EDUCATION

### M.Sc. Applied Computer Science

Oct 2025 – Sep 2027 (expected)

SRH University Stuttgart Stuttgart, DE

- Focus: applied AI, distributed systems, software architecture. GenAI coursework module produced Dr.ABC.
- Mörbius pursued alongside the M.Sc. as a self-led research project, not as the thesis.

### B.Tech — Computer Science Engineering

Undergrad

Kuppam, India Kuppam, IN

- Core CS foundations + backend engineering; started with PHP/Laravel on small CRMs and automation scripts.
- Built + maintained the Lions Club Kuppam website; mentored juniors on NGO + community web builds — paired code, PR reviews. Letters of recommendation on request.

## LANGUAGES & AVAILABILITY

**LANGUAGES:** English C2 · Telugu Native · Hindi C1 · German A1 (learning). **AVAILABLE:** Immediately. **ROLES:** Werkstudent · Junior Applied-AI · Junior Full-Stack (Germany). **VISA:** EU student residence permit — 20h/week semester, full-time breaks, through Sep 2027.