

Arvind Guruprasad

Applied AI Engineer

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SUMMARY

Applied AI engineer building agentic AI systems for healthcare in Python and TypeScript, with hands-on work in multi-agent orchestration, tool calling over EHR APIs, RAG and LLM evaluation. Five years in healthcare data and AI delivery with FHIR, HL7v2 and OMOP.

SKILLS

Agentic AI: Multi-agent orchestration, tool calling, MCP, structured outputs, RAG, context engineering, guardrails

LLM evaluation and observability: LangSmith, tracing, golden datasets, regression testing, prompt versioning

Engineering: Python, TypeScript, FastAPI, React, REST/OpenAPI, PostgreSQL, SQL, BigQuery, automated testing

Cloud and delivery: Docker, CI/CD, GCP, Azure OpenAI, Cloudflare Workers, privacy-aware design

Agentic engineering: Harness engineering, Claude Code, Codex CLI, Hermes Agent, Git worktrees, spec-driven development

EXPERIENCE

Arkus AI

Stockholm, Sweden

Founding AI Engineering Intern, then Contract AI Engineer

May 2025 - Sep 2026

- Built the **multi-agent orchestration framework** behind the platform's builder agent, which turns a user's description into a clinical AI workflow deployable as an API, grounded by a knowledge base documenting 43 platform components.
- Built a **unified EHR agent tool** over Epic, AthenaOne and Kaddio, and wrapped ICD-11, SNOMED CT, PubMed and ClinicalTrials.gov as agent tools so outputs are grounded in clinical terminology and literature.
- Set up **LLMOps in LangSmith**: evaluation harness, benchmark datasets and prompt iteration across agent components.
- Built a local-LLM **PHI de-identification** and RAG pipeline over sensitive clinical data, with PII guardrails and human-in-the-loop review.
- Built the **generative UI** component that lets agents emit typed, schema-validated charts, tables, metrics and flowcharts inline via a tool call. Led full-stack delivery of the web platform on TanStack Start.

Karolinska Institutet

Stockholm, Sweden

Research Assistant, Applied AI for Medical Data

Apr 2025 - Oct 2025

- Built an LLM extraction pipeline for Swedish prescriptions with model routing and deterministic validation: **99.4% extraction success** on 1,000+ records, 1.1% manual review, projected ~\$300 per million records.

Quantiphi

Bangalore, India

Senior Data & AI Consultant

Oct 2022 - Aug 2024

- Founding member of the **Healthcare Insights practice on Google Cloud**, which grew out of a data platform modernization for a US non-profit health network, and lead for new healthcare engagements.
- Led discovery, solution design and delivery of an LSTM nurse-staffing forecast on 550M records from 4 source systems. **Cut overstaffing costs by 40%**, supporting \$1M+ in estimated annual savings, across 4 facilities.
- Designed an LLM and RAG-assisted HL7v2-to-FHIR mapping generator, estimated to **cut mapping effort by 40-50%**.

Data & AI Solutions Consultant

Jan 2021 - Sep 2022

- Led Quantiphi's R&D on **Google Cloud Healthcare Data Engine** from pre-alpha, working with Google's product and go-to-market teams through the first flagship implementation at a large US health system.
- Turned clinical workflows into FHIR and BigQuery requirements. The programs harmonized 10M+ HL7v2 messages and migrated **300M records**.
- Enriched patient-risk models with social and vulnerability data so high-risk patients were identified **15% earlier**.

Business Analyst Intern

Sep 2020 - Jan 2021

PROJECTS

- Household.** Shared household PWA on Cloudflare Workers with an MCP server exposing six scoped tools to each member's own agent. Agents draft expenses from receipts and voice, and members confirm them.
- Ambient.** Consent-driven ambient AI interface for Windows (Electron, React, TypeScript, Rust/N-API) that brings an existing agent into any app with inspectable context, approval paths and safe paste-back.
- Agentic engineering setup.** Hermes coordinator delegating to Codex CLI and Claude Code in isolated Git worktrees, gated by tests and independent review, with per-project memory for context engineering.

EDUCATION

Karolinska Institutet / KTH / Stockholm University

Stockholm, Sweden

MSc, Biostatistics and Data Science (Joint Programme)

Aug 2024 - Jun 2026

- Thesis benchmarked 3 **agentic LLM architectures** for mapping noisy EHR data to OMOP on structural validity, semantic preservation, cost and runtime across 6 EHR datasets.

BMS College of Engineering

Bangalore, India

BE, Computer Science and Engineering

Sep 2016 - Aug 2020