

VENKATESWARAN S

Senior Staff Engineer



CONTACT

- ✉ me@venkt.work
- ☎ +31 6 26629404
- 📍 Utrecht, Netherlands
- in [Venkateswaran S](#)
- 🇳🇱 [Dutch Citizen](#)
- 🏠 [venkt.work](#)

AWARDS

- 🏆 Anthropic Hackathon Winner, Apr '26 [🔗](#)

SKILLS

AI Stack

Vercel AI SDK / Pydantic AI

Languages & Core

Golang
Python
TypeScript
Network Programming

Cloud & Infrastructure

Kubernetes
AWS (SQS, DynamoDB)
GCP (PubSub, GKE)
Distributed Systems

Tools & Frameworks

Bash
OpenSearch / ELK
Docker
NLP Inference Stack

Leadership

Mentorship
System Architecture
Product Engineering
Analytical Thinking

CERTIFICATES

- 🏆 Deep Learning
- 🏆 LLM Harness & RAG

SIDE PROJECTS

</> [nalam.chat](#)

AI-powered House Manager using LLMs to manage household tasks and grocery inventory through a natural language interface.

OPEN SOURCE

</> [GNU LDTP](#)

Senior Staff Engineer with a strong background in building **high-performance distributed systems** powering search and conversational APIs for **100+ million users**. Led the design and deployment of infrastructure and backend platforms at Bird and ranking systems for Rakuten Viki's K-drama platform. Proficient with Kubernetes and container orchestration, with hands-on experience optimizing inference latency and system throughput. Deeply familiar with **modern AI development**, specializing in building robust **LLM harnesses** and utilizing frameworks like **Pydantic AI** and **Vercel AI SDK**. Seeking a **Senior or Staff Software Engineer** role to leverage my expertise in building **scalable, product-focused backend systems** and AI-driven infrastructure.

EXPERIENCE

📅 July '19 - Now

📍 **Bird, Netherlands**

Senior Staff Engineer

- Developed an **LLM harness** utilizing **RAG** and **semantic search** to automate marketing pipelines and optimize inference throughput.
- Architected a **multi-cluster scalable Kubernetes infrastructure** to support on-premise usage of the **WhatsApp API**, overcoming complex networking and file system tuning challenges.
- Designed and implemented an **end-to-end short-link generation system** with automated **SSL certificate management** and multi-account scaling.
- Engineered a **conversational API** and omni-channel messaging platform delivering billions of messages monthly for a **100M+ user base**.

📅 Apr '17 - July '19

📍 **Active Ai, Singapore**

Product Lead

- Led a team of six engineers to build and scale **Triniti.ai**, a **conversational AI platform** deployed for major financial institutions in Asia. Designed and maintained **Kubernetes-based infrastructure** for real-time **NLP inference**.
- Developed robust **APIs** and optimized the **AI inference stack** ensuring **>99.9% uptime**.

📅 Aug '15 - Apr '17

📍 **Cipherboard, Singapore**

Co-Founder

- Co-founded **Cipherboard**, developing a **mobile keyboard** with advanced **security** and **privacy** features.
- Implemented **end-to-end encryption** similar to WhatsApp's **Whisper protocol**.
- Implemented a **peer-to-peer cryptocurrency transfer** capabilities within the keyboard.

📅 Aug '13 - Mar '17

📍 **Viki Inc, Singapore**

Software Engineer

- Designed and implemented user-facing features for **video streaming**, including **real-time syncing** of watch markers, comments, and votes.
- Improved **search relevance** by integrating **contextual signals** into **ranking logic**.

📅 Jun '07 - Apr '13

📍 **Veveo, India**

Technical Lead

- Built a **distributed web crawler** for Veveo, a **video search aggregator**, to continuously **index** video content across the web.

EDUCATION

📅 July 2009

📍 **College Of Engineering Guindy, Chennai**

Bachelor Of Engineering

PUBLICATIONS

🏆 Semantic File Retrieval, HiPC'06 (IEEE-ACM)

🏆 A Semantic approach to File Systems - HiPAAC'07

🏆 2006 poster on "Semantic File Systems" cited in 2024 distributed systems research (arXiv:2410.11843v2)