

# Sethu Sankaran

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## SUMMARY

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AI Lead and Research Engineer with decades of experience developing and translating machine learning breakthroughs and scaled production at Google, Meta and HeartFlow. Current focus is on post-training, reinforcement learning, and agentic workflows, centered on building long-horizon autonomous agents that reason and self-optimize. Author of 30+ publications (including a co-first Nature paper) and 20+ patents. My broader research background spans continual learning, computer vision, biophysics, and neuroscience.

## EXPERIENCE

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A more comprehensive description of my experience and prior projects are [here](#).

**Uber Tech Lead/Senior Staff Research Engineer** Google, New York City, NY 10/2023-current

- Post-training, RL and agentic workflows focusing on building long-horizon coding agents to automatically discover and maximize kernel performance of state-of-the-art AI algorithms.
- Publications/articles including [Benchmark](#), [MaxKernel](#), [MLE Agent](#), [Tech Crunch](#)

**Tech Lead** Facebook AI, New York City, NY. 01/2020-10/2023

- Self- and semi-supervised techniques for multimodal modeling, including the development of [Refiner Fusion Networks](#), memory aware continuous finetuning and deploying them at scale.
- Developed Continuous Learning as a Platform (CLAP) balancing intransigency and model forgetting that is being used at scale for models across Facebook and Instagram.
- Media coverage: [[cnet](#), [techcrunch](#)]

**Tech Lead** HeartFlow Inc., Redwood City, CA., 03/2017-11/2019.

- Led R&D effort to design, develop and launch a [surgical stent planner](#) with FDA approval.

**Senior Research Scientist**, HeartFlow Inc., Redwood City, CA., 08/2012-02/2017.

- Developed algorithms [cardiac modeling](#) and [blood flow simulations](#) in the human heart.

## EDUCATION AND ACADEMIC EXPERIENCE

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2013-2014      Research Associate@**Stanford** at Dr. Karl Deisseroth's lab developing algorithms to analyze large scale neuronal behavior in the brain, resulting in co-first author publication in Nature [[link](#)].

2008-2012      Postdoctoral Fellow at **UCSD** developing algorithms for blood flow simulations and surgical planning with two high impact publications [[link1](#), [link2](#)] among others.

2004-2008      Ph.D. at **Cornell University**, Ithaca doing [research](#) on algorithms for uncertainty quantification and stochastic optimization of system driven by partial differential equations.

## PUBLICATIONS AND PATENTS

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Full list of scientific publications at [Google Scholar](#), with [downloadable links](#) and [patents](#).

## SKILLS

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Languages    Python, C++, PhP, Lua, Spark, SQL

Packages    PyTorch, TensorFlow, R