

Anish Shankar

*Senior Software Engineer
Google, Brain Robotics*

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Profile

Experienced Software Engineer with an affinity for diving into new systems, technologies & core infrastructure. Strong software engineering background in infrastructure & professional experience in *Infrastructure, Networking, Robotics, Computer Science, Distributed Systems, Reliability Engineering, Python, C++*.

Work Experience

- Mar 2020 – present **Senior SWE, Google Brain Robotics.** *Google Mountain View, CA.*
- Working on Robotics research at google, at the intersection of ML/Robotics Research & Robotics Infrastructure.
 - Developing the technologies for enabling AI-powered high speed robotics that can play table tennis and tackle other challenging tasks.
 - Helping improve performance, reproducibility, velocity & quality of results to enable cutting edge robotics research.
- 2018 – Mar 2020 **Tech Lead, Host Networking SRE.** *Google Sunnyvale, CA.*
- I co-founded the team, scaling from 2 to 12 members and was the expert & PoC for various on-host networking systems,
 - Working across multiple teams at google, enabling Google to develop & deploy cutting edge host-level packet-processing technology. Focus on efficiency & flexibility. These enable technologies like low-latency-*RDMA, Virtual Networking, Network Telemetry & Traffic Engineering/Enforcement*.
 - Engaged & Led solutions on a problems across System Reliability/Performance, Pilot Deployment + GA Readiness Reviews, Monitoring, Rollouts, etc.
 - Consulting on any new projects that affect the host-networking space, lending expertise and production guidance for launches.
- Nov 2014 – 2017 **Software Engineer, Bandwidth SRE.** *Google MTV, CA & Sydney, Australia*
- Worked on managing a variety of systems in production around *Bandwidth Enforcement, Network Telemetry, Traffic Engineering & WAN Data Transfer Systems*.
 - I designed & developed end-to-end solutions for several complex improvements to this system, improving: efficiency, reliability, production management & developer adoption/satisfaction. I was a key-decider for production decisions & direction for future improvements.

- Summer 2013 **Facebook Inc. – Software Engineering Intern**, Menlo Park, CA (HQ)
I worked on instrumenting and analyzing several critical error processing pipelines, and a framework to scale easy deployment and monitoring of new pipelines.
- Summer 2012 **Google Inc. – Software Engineering Intern**, Mountain View, CA (HQ)
I worked on improving recommendations within Google Plus. The project involved evaluating social connection similarity, experimenting with new algorithms and benchmarking approaches.

Education

- 2010–2014 **B.Tech with Honours in Computer Science**, *International Institute of Information Technology*, Hyderabad - India, *CGPA – 8.7* .
- 2009–2010 **Senior Secondary – CBSE AISSCE**, *Padma Sheshadri Senior Secondary School*, Chennai - India, 95.25%. In top 1% (National).

Notable Awards

- ACM ICPC **18th place** in the ACM ICPC World Finals 2012 , held in Warsaw, Poland in May 2012. *Highest Indian Team Rank at ICPC till date at the time.*
- ACM ICPC **42nd place** in the ACM ICPC World Finals 2011 , held in Orlando, Florida in May 2011. The ACM ICPC is one of the most prestigious competitive programming contests at the collegiate level.
- IOI 2010 **46th Globally (Silver Medal)** at the International Olympiad in Informatics (IOI) 2010 held at Waterloo, Canada. The IOI is the most prestigious programming olympiad at the High-School level.

Miscellaneous

- Fun Stuff I love working on fun tech projects. Among others, I write short android apps to improve my daily life, my garage opens with a raspberry pi, I've programmed a low power GPS+GSM AT modem for tracking my car as well as programming an nrf1822 on a BLE beacon.
- Competitive Programming I've been quite active in competitive programming sphere during university. I used to be the *Programming Club Coordinator* at my college, helped organize several contests for our university which saw international participation, I volunteered as the *Assistant Coach*, teaching & setting algorithmic problems at the IOITC where Indian students are trained for the IOI.

Technical Skills and Experience

- Core Areas Infrastructure, Networking, Robotics, Distributed Systems, Algorithms, Generalist
- Skills Architecting Scalable Designs, Research & Prototyping, Ops, Tactical Solutions & In-depth Problem Analysis, Automation
- Languages Python, C++, Bash